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# AD JOUR BRICAN RAILRO

# AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY,

AND MINES.

ESTABLISHED



PUBLISHED WEEKLY, AT No. 105 CHESTNUT STREET, PHILADELPHIA, AT FIVE DOLLARS PER ANNUM.

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SATURDAY, JANUARY 9, 1847.

IWHOLE No. 551, Vol. XX.

### AMERICAN RAILROAD JOURNAL.

OFFICE AT THE FRANKLIN HOUSE, 105 Chestnut Street,

PHILADELPHIA, PA.

This is the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all persons in any way interested in these undertakings. Hence it offers peculiar advantages for advertising times of departure, rates of fare and freight, improvements in machinery, materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new undertakings fairly before the public.

TERMS. - Five Dollars a year, in advance.

### RATES OF ADVERTISING

TOTAL DE CE LEDI ELLE LOLL	- ·	
One page per annum	\$120	0
One column "	. 50	0 (
One square "	. 15	0
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Professional notices per annum.		
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OSTON AND PROVIDENCE RAIL-

Poston and Providence Railroad. Passenger Notice. Summer Arrangement. On and after Monday, Sept. 28, 1846, the Passenger Trains will run as follows:
For New York—Night Line, via Stonington.
Leaves Boston every day, but Sunday, at 5 p.m.
Accommodation Trains, leave Boston at 71 a.m.
and 31 p.m., and Providence at 8 a.m. and 34 p.m.,
Dedham trains, leave Boston at 9 a.m.; 3 p.m.,
51 p.m., and 101 p.m. Leave Dedham at 8 a.m.
and 41 and 9 p.m.
Stoughton trains, leave Boston at 111 a.m. and
4-10 p.m. Leave Stoughton at 8 a.m. and 24 p.m.
All baggage at the risk of the owners thereof.
31 ty
W. RAYMOND LEE, Supt.
BRANCH RAILROAD and STAGES CON-

BRANCH RAILROAD and STAGES CONnecting with the Boston and Providence Railroad.
Stages connect with the Accommodation trains at
the Foxboro' Station, to and from Woonsocket. At
the Seekonk Station, to and from Lonsdale, R. I.
via Pawtucket. At the Sharon Station, to and from
Walpole, Mass. And at Dedham Village Station
to and from Medford, via Medway, Mass. At Providence, to and from Bristol, via Warren, R. I.—
Taunton, New Bedford and Fall River cars run in
connection with the accommodation trains.

BOSTON AND MAINE RAILROAD.
Upper Route, Boston to Portland via, Reading,

ver, Great Falls, South & North Berwick, Wells, Kennebunk and Saco. Andover, Haverhill, Exeter, Do-

Winter Arrangement, 1846-7.
On and after October 5th, 1846, Passenger Trains will leave daily, (Sundays excepted,) as follows:
Boston for Portland at 7‡ a.m. and 2‡ p.m.
Boston for Great Falls at 7‡ a.m., 2‡ and 3-25

Boston for Haverhill at 71 and 111 a.m., 21, 3-25

and 5 p.m.

Boston for Reading at 74, and 114 a.m., 24, 3-25

and 64 p.m.
Portland for Boston at 74 a.m., and 3 p.m.
Great Falls for Boston at 64 and 94 a.m., and 44

m. Haverhill for Boston at 71, 84, and 11 a.m. and

Havernin to boston at 7, 84 and 94 a.m., 12 m., Reading for Boston at 7, 84 and 94 a.m., 12 m., 14, 4 and 74 p.m.

The Depot in Boston is on Havmarket Square.

Description of the boston is on Havmarket Square.

Description of the boston at 7, 84 and 94 a.m., 12 m., 12 Passengers are not allowed to carry Baggage above \$50 in value, and that personal Baggage, unless notice is given, and an extra amount paid, at the rate of the price of a Ticket for every \$500 additional value.

CHAS, MINOT, Super't. 1v31

THE BEST RAILROAD ROUTE TO THE
Lake and Buffalo, from Cincinnati.
Take Cars to Xenia, 65
miles; take Stage to Mansfield, 88 miles; thence by Cars to Sandusky, 56
miles to the Lake; thence Steamboat to Buffalo, 230
miles.

Fare by this route, although the cheapest across the state, will be reduced in a short time, railroad lengthened, and speed increased.

Leave Cincinnati in the morning, arrive at Co-

lumbus at night.

Leave Columbus in the morning, arrive at San-

Leave Columbus in the morning, arrive at Sandusky same day.

Leave Sandusky, by Boat, in the morning, arrive at Buffalo next morning in time for the Cars north and east for Niagara Falls, Canada, Saratoga Springs, Troy, Albany, Boston, New York, Washington, or Philadelphia.

Passengers should not omit to pay their fare through from Cincinnati to Sandusky, or from Columbus to Sandusky via Mansfield; as this route is the only one that secures 56 miles [this road is run over in 2h. 50m.,] most railroad which is new, and is the shortest, cheapest and most expeditious across he state:

Fares on the New York railroads are about to be educed.

B. HIGGINS, Supit, etc.

Saudusky, Otio.

M. & S. C. R. R. Co.

SUMMER ARRANGEMENT.—NEW YORK AND ERIE RAILROAD LINE, from April and List until further notice, will run daily (Sundays excepted) between the city of New York and Middletow Goshen, and intermediate places, as follows:

FOR PASSENGERS—
Leave New York at 7 A. M. and 4 P. M.

"Middletown at 6; A. M. and 5; P. M.
FARE REDUCED to \$1 25 to Middletown—way in opportion. Breakfast, supper and berths can be had proportion. Breal on the steamboat.

Leave New York at 5 P. M.

"Middietown at 12 M.

The names of the consignee and of the station where to be left, must be distinctly marked upon each article shipped. Freight not received after 5 P. M. in New York.

Apply to J. F. Clarkson, agent, at office corner of mane and West sts. H. C. SEYMOUR, Supt. March 25th, 1846.

Stages run daily from Middletown, on the arrivat of the afternoon train, to Millord, Carbondale, Honesdale, Montrose, Towanda, Owego, and West; also to Monticello, Windsor, Binghamton, Ithaca, etc., etc.. Agent on board.

NORWICH AND WORCESTER RAIL-Road. Summer Arrangement, commencing

Monday, April 6, 1846. Accommodation Trains, daily, except Sunday. Leave Norwich, at 6 a.m., and 41 p.m. Leave Worcester, at 10 a.m., and 41 p.m.

The morning Accommodation Trains from Norwich, and from Worcester, connect with the trains of the Boston, and Worcester and Western

railroads each way.

The Evening Accommodation Train from Worcester connects with the 1½ p.m. train from Bostom.

New York Train via Long Island Railroad:
Leave Allyn's Point for Boston, about 1 p.m., daily, except Sunday.

Leave Worcester for New York, about 10 a.m., stopping at Webster, Danielsonville, and Norwich.

New York Train via Steamboat—Leave Norwich for Boston, every morning, except Monday, on the arrival of the stamboat from New York, stopping at Norwich and Danielsonville.

Leave Worcester for New York, upon the arrival

Leave Worcester for New York, upon the arrival of the train from Boston, at about 41 p.m., daily, except Sunday, stopping at Webster, Danielsonville and Norwich.

Freight Trains daily each way, except Sunday.— Special contracts will be made for cargoes, or large quanties of freight, on application to the superinten dent.

Pares are Less when paid for Tickels than when paid in the Cars. I J W. STOWELL, Supr.

TROY RAILROADS.—IMPORTANT Notice.—Troy and Greenbush Railroad, forming a continuous track from Boston to Buffalo and Saratoga Springs.

This road is new, and laid with the heaviest iron H rail. Trains will always be run on this road connecting at Greenbush each way with the trains to and from Boston and intermediate places, leaving Greenbush daily at 14 p.m. and 6 p.m., or on arrival of the trains from Boston; leave Troy at 74 a. and 44 p.m., or to connect with trains to Boston Trains also run hourly on this road between Troy and Albany. Running time between Greenbush and Troy, 15 minutes.

TROY AND SCHENECTADY RAILROAD.

This tond is laid its entire length with the heaviest H-rails which is not the fact with the road from Albany. Trains will always be run on this road connecting each way, to and from Buffalo and intermediate places. Leave Troy for Buffalo at 7½ a.m. and 1 p.m. and 6½ p.m., or to connect with the trains for the west; leave Schenectady at 2½ a.m., 8½ a.m., 1 p.m. and 5½ p.m., or on arrival of the trains from Buffalo and intermediate places.

### TROY AND SARATOGA RAILROAD. THE ONLY DIRECT ROUTE.

No change of passenger, baggage or other cars on this route. Cars leave Troy for Ballston, Saratoga Springs, Lake George and White Hall at 74 a.m., (arriving one hour in advance of the train from Albany,) and at 34 p.m. Returning, leave Saratoga at 9 a.m. and 34 p.m., (reaching Troy in time for the evening boats to New York.) Cars also leave Troy for the Burrough at 34 p.m. and 7 p.m., connecting with packet boats for the north. This takes passengers from New York and Boston to Montreal in 44 hours. in 44 hours.

n 44 hours.

N.B. Travellers will find the routes through Troy most convenient and economical, and as expeditious as any other. The steamboats to and from New York land within a few steps of the railroad office, and passengers are taken up and landed by the different railroad lines at the doors of principal hotels, thus saving all necessity for, and annoyance from, hack drivers, cabmen, runners, etc.

Asg 3, 1846.

BALTIMORE AND OHIO RAILROAD.
MAIN STEM. The Train carrying the
Great Western Mail leaves Bal-

timore every morning at 71 and Cumberland at 8 o'clock, passing Elticou's Mills, Frederick, Harpers Ferry, Martinsburgh and Hansock, conncting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry—with the Winchester Trains at Harpers Ferry—with the various railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Blownsville and Pittsburgh. Time of arrival at boti Cumberland and Baltimore 51 P. M. Fare between those points \$7, and 4 cents per mile for less distances. Fare through to Wheeling \$11 and time about 36 hours, to Pittsburgh \$10, and time about 32 hours Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12 Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M. and from Frederick to Baltimore at 8 A. M.

#### WASHINGTON BRANCH.

Dally trains at 9 A. M. and 5 P. M. and 12 at night from Baltimore and at 6 A. M. and 51 P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington and the Relay house. Fare \$1 to through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances. a13y1

THE SUBSCRIBER IS PREPARED TO Lexecute at the Trenton Iron Works, orders to Railroad Iron of any required pattern, and warranted equal in every respect in point of quality to the best American or imported Rails. Also on hand and made to order, Bar Iron, Braziers' and Wire Rods, etc., etc

PETER COOPER 17 Burling Slip. W. STOWELL, &

From thence by Cars, over the Mansfield Railroad which is new and just opened [laid with heavy Iron,] to Mansfield,

56 46 distance... Theuce by Stage via Columbus to Xenia over gravel and Macadamized Road, (the best in the state,) in new coaches, 

Sandusky to Columbus..... 4 through to Cincinnati ..... 8 00 Passengers should not omit to pay their fare through from Sandusky City to Cincinnati and take receipts

availing themselves of the benefit of a contract existing between the said Railroad and Stage Co's, securing 121 miles travel by good Railroad and 88 miles by Stage, in crossing from Lake Erie to the Ohio river, in the space of 30 hours.

ver, in the space of 30 hours.

Passengers destined for St. Louis, or any point below on the Mississippi, will save by taking this route, from 4 to 6 days time and travel, and nearly half the expense, over the Chicago and Peoria route

to the above places.

Fare by this route, although the cheapest, will in a short time be reduced, Railroad lengthened, and speed increased.

B. HIGGINS, Sup't, etc. M. & S. C. R. R. Co.

Sandusky City, Ohio.

YEW YORK & HARLEM RAILROAD CO.—Winter Arrangement.

On and after Monday, November 23, 1846, the cars will run as follows: Leave 27th street for 42d street, Deaf and Dumb

Leave 27th street for 42d street, Dear and Dumb Institute, Yorkville, Harlem Morrianna, and Wil-liams' Bridge, at 7 o'clock a.m. From City Hall for above named places, 2 p.m. [freight train,] 2 30 p.m. 5 p.m. to Morrisiania only. Leave City Hall for Harlem, Morrisiania, Ford-ham and Williams' Bridge, at 7 45 a.m., and 10 45 a.m.; 1 15 p.m., 2 p.m. [freight train], 2 30 p.m. and 2 45 p.m.

45 p.m. Leave City Hall for Hunt's Bridge, Bronx, Tuckahoe, Hart's Corners White Plains, Davis' Brook, Unionville and Pleasantville, [Pleasantville 4 miles from Sing Sing,] 7 45 and 10 45 a.m.; 1 15 p.m., 2 p.m. [treight train], and 3 45 p.m.

RETURNING Leave Pleasantville, at 8, 10, [freight train], and

11, a.m.; 1 30, and 4, p.m.

Leave White Plains, at 8 12, 10 30, [freight train] and 11 20 a.m.; 1 50, and 4 20, p.m.

Leave Tuckahoe, 8 35, 10 55, [freight train,] and 11 35, a.m.; 2 05, and 4 35, p.m.

Leave Williams' Bridge at 7 45, 8 50 and 11 50 a.

1.; 2 ± 0, 4, and 4 50 p.m. Leave Morrisiania 8 and 9 05 a.m.; 12 05, 2 35, 20, 5 05 and 6 p.m. Leave Yorkville, at 8 12 a.m.; 435 and 6 15 p.m

SUNDAY ARRANGEMENTS.
Leave City Hall for Pleasantville and intermedite places, at 7.45 a.m.; 1 15 and 3 p.m.
Leave Pleasantville for City Hall, at 8 a.m.; 11

nd 3 15 p.m.

Leave City Hall for Williams' Bridge and inter-

nediate places, 10 45 a.m.; 2 30 p.m.

Leave Williams' Bridge for City Hall, at 8 50 a.m.; 1, 3 45 and 4 05 p.m.

Ly49

FARE. Fare to York. \$1 50

" Wrightsville 2 00

" Columbia 2 12 Way points in proportion.

PITTSBURG, GETTYSBURG AND
HARRISBURG. Through tickets to Pittsburg via stage to Har-

Trains leave Lexington for Frankfort daily, at 5 o'clock a.m., and 2 p.m.
Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fare \$1.25.
On Sunday but one train, 5 o'clock a.m. from

Lexington, and 2 o'clock p.m. from Frankfort.

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and ma. 9. from Frankfort, other hours as above. 351v

SOUTH CAROLINA RAILROAD.--- A Passenger Train runs daily from Charleston,

on the arrival of the boats from with trains on the Georgia, and Western and Atlantic Railroads—and by stage lines and steamers connects with the Montgomery and West Point, and the Tuscumbia Railroad in N. Alabama.

Fare through from Charleston to Montgomery daily.

resouth Carolina Railroad Co. engage to receive merchandize consigned to their order, and to
forward the same to any point on their road; and to
the different stations on the Georgia and Western
and Atlantic railroad; and to Montgomery, Ala., by
the West Point and Montgomery Railroad.

1y25

JOHN KING; Jr., Agent.

CENTRAL RAILROAD-FROM SAV ANnah to Macon. Distance 190 miles.
This Road is open for the trans-

portation of Passengers and
Freight. Rates of Passage, \$8 00. Freight—
On weight goods generally... 50 cts. per hundred.
On bris. wet (except molasses and oil)....

MANUFACTURE OF PATENT WIRE
Rope and Cables for Inclined Planes, Standing Ship Rigging, Mines, Cranes, Tillers etc., by
JOHN A. ROEBLING, Civil Engineer,
Pittsburgh, Pa.
These Ropes are in successful operation on the
planes of the Portage Railrond in Pennsylvania, on
the Public Slips, on Ferries and in Mines, The
first rope put upon Plane No. 3, Portage Railrond,
has now run 4 seasons, and is still in good condition.

2,19 Jy

CENTRAL AND MACON AND WEST-ern Railroads, Ga.—These Roads with the Western and Atlantic Railroad of the State of Georgia, form a continuous line from Savannah to Oothealoga, Ga., of 371 miles, viz: On Weight Goods—Sugar, Coffee, Liquor, Bagging, Rope, Butter, Cheese, Tobacco, Leather, Hides, Cotton Yarns, Copper, Tin, Bar & Sheet Iron, Hollow Ware & Castings \$0 75

Line, leaving Baltimore same day.

Passengers leaving New York at 4‡ P.M., Philadelphia at 10 P.M., and Baltimore at 6‡ A.M., proceed without delay at any point, by this line, reaching Richmond in eleven, Petersburg in thirteen and a half hours, and Charleston, S. C., in two days from Baltimore

Baltimore.
Fare from Baltimore to Charleston......\$21 00
" " Richmond...... 6 60
For Tickets, or further information, apply at the Smithern Ticket Office, adjoining the Washington Railroad Office, Pratt street, Baltimore, to 1914 STOCTON & FALLS, Agents,

RAILROAD SCALES.—THE ATTEN— tion of Railroad Companies is particularly requested to Ellicous' Scales, made for weighing loaded cars in trains, or singly, they have been the inventors, and the first to make platform scales in the United States; supposing that an experience of 20 years has given a knowledge and superior advantage in the business.

The levers of our scales are made of wrought The levers of our scales are made of wrought iron, all the bearers and fulcrums are made of the best cast steel, laid on blocks of granite, extending across the pit, the upper part of the scale only being made of wood. E. Ellicott has made the largest Railroad Scale in the world, its extreme length was one hundred and twenty feet, capable of weighing ten loaded cars at a single draft. It was put on the Mine Hill and Schuylkill Haven Railroad.

We are prepared to make scales of any size to weigh from five pounds to two hundred tons.

ELLICOTT & ABBOTT.

Factory. 9th street, near Coates, cor. Melon st.

Factory, 9th street, near Coates, cor. Melon st. Office, No. 3 North 5th street Philadelphia, Pa. GEORGIA RAILROAD. FROM AU- LITTLE MIAMI RAILROAD.—OPEN GUSTA to ATLANTA—171 MILES. L TO SPRINGFIELD—Distance 84 miles— AND WESTERN AND ATLANTIC BAILBOAD PROM AT-LANTA TO OOTHCALOGA, 80 MILES.

This Road in connection with the South Carolina Railroad and Western and Atlantic Railroad now forms a continuous line, 388 miles in length, from Charleston ...101 to Oothealoga on the Oostenaula River, in Cass Co., Georgia.

on Weight Goods—Sugar, Coffee, Liquor, Bagging, Rope, Butter, Cheese, Tobacco, Leather.—Hides, Cotton	RATES OF FREIGHT.	Between August and Oothealo	Betwee Charlest and Oothcalo
Yarns, Copper, Tin, Bar & Sheet Iron, Hollow Ware & Sheet Iron, Hollow Ware & 50 Storm, Rice, Bacon in Casks or boxes, Pork, Heef, Fish,	2d class. Boxes and Bales of Dry Goods, Sadlery, Glass,	<b>30</b> 16	<b>\$0 25</b>
On Measurement Goods—Box- es of Hats, Bonnets and Fur-	Paints, Drugs and Confectionary, per 100 lbs. 3d class. Sugar, Coffee, Liquor, Bagging, Rope, Cotton Yarns, Tobacco, Lea-	0 90	1 40
niture, per cubic foot 0 20 0 26  Boxes and Bales of Dry Goods, Saddlery, Glass, Paints, Drugs and Confectionary,	Tin, Bar and Sheet Iron, Hollow Ware, Castings, Crockery, etc.	Le toop	0 75
per cubic foot	4th class. Flour, Rice, Bacon, Pork, Beef, Fish, Lard, Tal- low, Beeswax, Fea- thers, Ginseng, Mill	17 12 17	
Ploughs, (large,) Cultivators, Corn Shellers, and Straw Cutters, each	Gearing, Pig Iron, and Grindstones, etc Cotton, per 100 lbs Molasses, per hogshead. "" barrel	0 37t 0 45 8 50	0 621 0 65 13 50 3 25
Salt, per Liverpool Sack 0 70 0 95 Passage—Savannah to Atlanta, \$10; Children, under 12 years of age, half price, Savannah to Macon, \$7.	Salt per bushel	0 17	95
Goods consigned to the subscriber will be forwarded free of Commissions. Freight may be paid at Savannah, Atlanta or Oothcalogs. F. WINTER, Forwarding Agent, C. R. R. Savannah, Aug. 15th, 1846.	Garman or other emigrants i	n lots of roads a	of 20 or at 2 cents will be
REAT SOUTHERN MAIL LINE! VIA Washington city, Richmond, Petersburg, Weldon and Charleston, S. C., direct to New Orleans. The only Line which carries the Great Southern Mail, and Twenty-four Hours in advance of Bay Line, leaving Baltimore same day.  Passengers leaving New York at 44 P.M. Phila-	paid at Augusta, Atlanta, or Oothe J. EDGAR T Ch. Eng. as Augusta, Sept. 2d, 1846.	paloga. HOMS d Gen.	ON,

WESTERN AND ATLANTIC Railroad.—This Road is now in operation to Oothealoga, a distance of 80 miles, and connects daily (Sundays excepted) with the Georgia Rail-

From Kingston, on this road, there is a tri-weekly rom Kingston, on this road, there is a tri-weekly line of stages, which leave on the arrival of the cars on Tuesday, Thursday and Saturday, for Warrenton, Huntsville, Decatur and Tuscumbia, Alabama, and Memphis, Tennessee.

On the same days, the stages leave Oothcaloga for Chattanooga, Jasper, Murfreesborough, Knoxville and Nashville, Tennessee.

This is the most expeditions route from the cost to

This is the most expeditious route from the east to

try of these places.
CHAS. F. M. GARNETT, Atlanta, Georgia, April 16th, 1846.

TO RAILROAD COMPANIES AND MANufacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all
sizes; English blister, cast, shear and spring steel;
Juniata rods; car axles, made of double refined iron;
sheet and boiler iron, cut to pattern; tiers for locomotive engines, and other railroad carriage wheels,
made from common and double refined B. O. iron;
the latter a very superior article. The tires are
made by Messrs. Baldwin & Whitney, locomotive
engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in made from common and double refined B. O. iron; the latter a very superior article. The tires are made by Messrs. Baldwin & Whitney, locomotive engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in the order, a fit to those wheels is guaranteed, saving to the purchaser the expense of turning them out inside.

THOMAS & EDMUND GEORGE, at E. cor. 12th and Market sts., Philad., Pa.

connecting at Xinia and Springfield with Messrs. Neil, Moore,
& Co's. daily daylight lines of stages going east,
and north, to Columbus, Zanesville, Wheeling,
Cleveland, and Sandusky City via Urbana, Bellefontaine, Kenton, and the Mad river and lake Erie
railroad, or Columdus, Delaware, and the Manefield
and Sundusky City railroad—forming, by these connections, the cheapest and most expeditious route to
Buffalo, Niagara Falls, Rochester, Albany, Ney
York, and Boston.
On and after Thursday, August 13, 1846, until

On and after Thursday, August 13, 1846, until On and after Thursday, August 13, 1840, uninfurther notice, a Passenger train will run as filows:
Leave Cincinnati daily at 9 A. M., for Milford,
Foster's Crossing, Deerfield, Morrow, Fort Ancient,
Freeport, Waynesville, Spring Valley, Xenia, Old
Town, Yellow Springs, and Springfield.
Refurning, will leave Springfield at 4 hours 33
minutes A. M. A line of Hacks runs in connection
with the Cars, between Deerfield and Lebanon.

FARE-From Cincinnati to Lebanon .... \$1 00 " Xenia . . . 1 50
" Springfield . 2 00
" Columbus . . 4 00 44 23

" Sundusky city 8 00 The Passenger trains runs in connection with Strader & Gorman's line of Mail Packets to Louis-

Tickets can be procured at the Broadway Hotel, Dennison House, or at the Depot of the Company, on East Front street.

Further information and through tickets for the Stage lines, may be procured at P. Campbell, Agent on Front street, near Broadway.

The company will not be responsible for baggage beyond 50 dollars in value, unless the same is returned to the conductor or agent, and freight paid at of a passage for every \$500 in value over that

The 11 P. M. train from Cincinnati, and the 2 40 P. M. train from Xenia, will be discontinued on and after Monday, the 10th instant.

A freight train will run daily.

W. H. CLEMENT, Supt.

AWRENCE'S ROSENDALE HYDRA-ulic Cement. This cement is warranted equal to any manufactured in this country, and has been pronounced superior to Francis' "Roman." Its value for Aqueducts, Locks, Bridges, Flooms and all Masonry exposed to dampness, is well known, as it sets immediately under water, and increases in solidity for years.

solidity for years.

For sale in lots to suit purchasers, in tight paperent barrels, by JOHN W. LAWRENCE,

142 Front street, New York.

Torders for the above will be received and promptly attended to at this office.

32 17

LEVELAND, COLUMBUS AND CIN-Cinnati Railroad. In pursuance of a resolu-tion adopted by the Board of Directors, on the 21st October, notice is hereby given, that proposals will be received up to the 1st day of December next, for be received up to the 1st day of December next, for the Grading, Timbering, Bridges and Culverts on forty miles of the road, commencing at Cleveland. Profiles, Specifications, Terms of Payment, and all other information pertaining to the matter, to be fur-nished on application at the office of the Company, Merwin Block, Cleveland.

JOHN W. ALLEN, President,

A. G. LAWRENCE, Secretary.

Cyrus Williams, Engineer.

Cleveland, October 23, 1846.

BACK VOLUMES OF THE RAHMOAD JOURNAL for sale at the office, No. 105 Chestant street,

VALUABLE PROPERTY ON THE MILL Point, so called, on the Mill Dam, in Roxbury, fronting on and east of Parker street, containing 68,497 square feet, with the following buildings thereon standing.

185,497 square feet, with the following buildings thereon standing.

Main brick building, 120 feet long, by 46 ft wide, two stories high. A machine shop, 47x43 feet, with large engine, face, screw, and other lathes, suitable to do any kind of work.

Pattern shop, 35x32 fe, with lathes, work benches, Work shop, 86x35 feet, on the same floor with the

Work shop, 86x35 feet, on the same floor with the pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts, drums, pulleys, &c., large and small trip hammers, turnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry.

Foundry, at end of main brick building, 60x45½ reet two stories high, with a shed part 45½x20 feet, containing a large air furnace, cupola, crane and corn oven.

corn oven

Store house—a range of buildings for storage, etc., 200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

Also—A lot of land on the canal, west side o Parker st., containing 6000 feet, with the following buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two stories.

Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co.,
I'madelphia.

TO RAILROAD COMPANIES AND BUILD-ERS OF MARINE AND LOCOMOTIVE ENGINES AND BOILERS.

#### PASCAL IRON WORKS.

# WELDED WROUGHT IRON TUBES

m 4 inches to 1 in cabbre and 2 to 12 feet long, able of sustaining pressure from 400 to 2500 has equare inch, with Stop Cocks, Tr. L. able of fixtures to suit, fitting together, with screw ts, suitable for BTEAM, WATER, GAS, and for DOMOTIVE and other STEAM BOILER FLUES.



MORRIS, TASKER & MORRIS.

Archouse S. E. Corner of Third & Walnut Streets

PHILADELPHIA.

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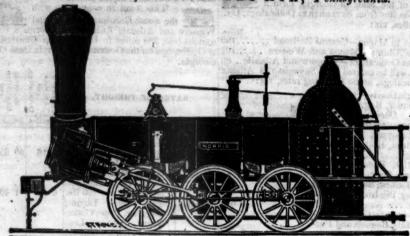
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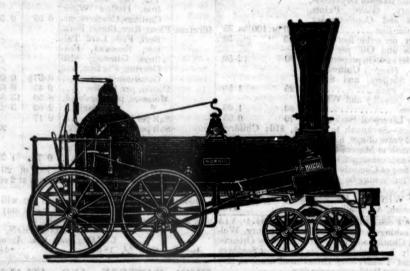
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1066	4,	124	de .	44	0 00	44	X	20	-46	4
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"Railways at Home and Abroad."

THE EDINBURGH REVIEW, AND ITS ARTICLE ON RAILWAYS. (ART. VII.)

(Continued from page 8.)

The line from Amsterdam to the frontier of Prussia is completed, and open as far as Arnheim, a distance of fifty-eight miles. This was constructed by the state, but afterbeen granted to companies for the construction of various other lines

companies, of a complete system of railways; surveyed and laid out under the immediate superintendence of the govern-cident have been still more rare. According ment—the total capital to be invested in to an official return for the first six months

millions sterling.

Passing over the Italian States and Portu-Passing over the Italian States and Portugal, where little has yet been done in rail-way undertakings, we shall only add, as to Spain, that if behind other European powers in the improvement of inland transport at killed or wounded. Only three agents of in the improvement of inland transport at the railway suffered. home, she has not been so supine in her colonies. A railway, forty five miles in length, was constructed across the most ferlength, was constructed across the most fer-tile part of the beautiful island of Cuba, ling in Paris and its environs: so early as 1838, and has since been in constant use. It is difficult to convey any ade quate impression of the effects produced on the mind of the traveller as he is carried over this natural garden, in a way so little to be expected, amid such scenery. Emerging from the tacon suburbs of the Havanna, he traverses fields of pine-apples, bordered by hedgerows bending under the burden of the ripe orange, and sprinkled at intervals with the banana, the plantain, and the cocoatree. These are atternated with sugar plantations and tobacco. Through this scene, redolent of the Tropics, and calling up the historic recollections of Columbus and his adventurous companions, he is whirled at the rate of twenty miles an hour, by machines bearing the name of a Manchester manufacturer, impelled by fuel from Lan-cashire, and worked by an engineer from Newcastle-on-Tyne! The swarthy African, as the strange apparition passes him, pauses from his toil, and gazes at it with a wonder which time and custom can hardly abate.

The advantages which railway transit presents on the score of expedition, econ omy and certainty, have, in the estimation of a considerable portion of the public, not only in England but elsewhere, been regarded as subject to a serious drawback and qualification, in consequence of the terrible character of the accidents which have from time to time occurred. The circumstantial details of cases, circulated in highly-colored accounts by the daily press, are certainly calculated to raise much apprehension. We shall now, therefore, lay before the public such data of a well-ascertained nature, as mon sense and reflection, to decide on the favor of the safety of travellers who con Western Railway. 1838 may enable every one endowed with com-

he exposes his person when he makes a hulf a million to one.

ways we find that 6,609,215 passengers travelled on these lines between 1835 and 1839. Of this number fifteen were killed and sixteen wounded by railway accidents But of these numbers twenty six were perwards leased to an Anglo Dutch Company.
The capital invested being £800,000, the cost is £15,000 per mile. Privileges have trilled and two wounded. The charges of sons employed on the road or in working is to keep your place in the carriage, if pos-the trains. Only three passengers were sible, to the end of your journey; never get-killed and two wounded. The chances of ting out and in at stations, except when indisthe death of a passenger from railway accident were therefore 1 to 2,203,215. of the States-General, the minister of the Interior announced the approaching execution, through the instrumentality of private of whom was a suicide, and the other two companies of a complete of the second Chamber 1842, the number of passengers was 2,716,755. Of these three only were killed, one of whom was a suicide, and the other two

On the French lines, the deaths from acwhich would amount to from six to seven of 1843, upon the six lines which issued from the capital, of which the total length was 212 miles, the circulation had amounted

It may not be uninteresting to put in jux-

 T a 19 and	10 cm - 11 O	1815 0		
Year.	Killed.		Wounded.	
1834	4		134	
1835	12		214	
1836	5		220	
1837	11		361	
1838	19		366	
1839	9	MA	384	
1840	14		394	
		4	0000	
Total.	74		2073	

On the English railways, of which the extent and traffic are much greater, the abmust of course be expected to be more numerous. But we shall find, by referring to the following Statement from the last return of the Railway Department to Parlia ment:

THE REAL PROPERTY.	Number of persons injured.				
Years.	Numbr of acci- dents.	Killed.	Injured not Fataliy	Total.	
1840.	28	22	131	153	
(five months)	milion		nowed Jason	042.25	
1841	29	24	72	72	
1842	10	5	14	14	
1843	6	3	3	4	
1844	34	10	74	74	
1845	15	2	30	30	
Years.	No. of miles of Hailway	Total No Passeng	Proportion of of persons i	injured to	

Years.	miles of Hailway open.	Total No. of Passengers carried			
1840	1330	6,029,866	1	in	39,410
(five months)	Men With the	out to some			Mr. Carrier
1841	15561	20,449,745	1	in	213,018
1812	17174	21,358,445	1	in	1,124,128
1843	17984	25,572,525	1	in	4,262,087
1844	19121	33,363,052	1	in	356,702
1845	21184	16,720,550	-1	in	592,517
BRANCH BUILDING	SCHOOL SECTION	PROPERTY AND INCOME.	and a	100	CONTRACTOR OF THE

actual nature and degree of danger to which duct themselves with ordinary prudence, is

journey by railway conveyance.

By the official reports of the Belgian Rail kind or degree of prudence or caution expected from railway travellers, as more especially necessary to their security. We answer, as the result of rather large experience of railway travelling in nearly every part of the globe, that the best general rule pensably necessary.

Among the numerous questions which have arisen out of the conflicting interests engaged in railway speculations in England, there is one which demands some notice, were it only on account of the extraordinary extent to which it has lately engrossed public attention. Nothing can more strikingly demonstrate the protound and general in-terest felt in everything connected with railways than the bitterness which has marked the contest, in which dispassionate and disinterested parties would find it difficult to discover any ground for a reasonable doubt as to the proper decision to be come to.

We have seen that there was in operation, at the close of last year, about 2100 miles of railway. In the construction of rails was fixed, in accordance with that adopted in the earlier lines, at 564 inches; an uniformity rendered necessary in order to enable engines and carriages freely to pass from line to line throughout the country. A line called the Great Western had been laid down through a certain tract of the country, with an exceptional width (or gauge as it has been called) of \$4 inches; and from this line subsequently branches were extended, having, of necessity, the same gauge. It was, of course, evident solute number of accidents fatal or injurious from the beginning, that this system of exceptional lines, now amounting to 240 miles, by the adoption of a different gauge, dissocithe Parliamentary returns, that the actual ated itself from all other British railways; amount of danger to life or limb, on English the commerce of which could never flow railways, is quite insignificant. We take into it, nor could they receive from it any commerce except by transhipment. It was said at the time, by the superintending engineer of these lines, that the departure from the ordinary gauge was 'undoubtedly an inconvenience. It amounts to a prohibition to almost any railway running northward from London; as they must all, more or less, depend for their supply on other lines or districts where railways already exist, and with which they must hope to be connected. In such cases there is no alternative. The Great Western Railway, howtive. The Great Western Railway, now-ever, broke ground in an entirely new dis-trict in which railways were unknown.

other of the main lines; and the principal branches were well considered, and almost formed part of the original plan; nor can these be dependent on any other existing lines, for the traffic which they will bring to

the main trunk."

The commercial isolation of this exceptreasonably anticipated. The partisans of construction of these roads, the invention and tional system was, therefore, contemplated each system contend for relative superiori-improvement of the machinery for transport by the engineer and directors, and consecties in various respects; but the differences case, would have ensued. But, in the event, one system or the other; and are such as cocious. The vehicles which it drew, and the development of railway transport far cannot, in the remotest degree, interest the in which the business of transport was exetranscended the anticipations of the engineer public. and directors of the exceptional gauge, as well as all the rest of the world; and, coning admitted on all hands, and the utter trary to their expectations, the ramifications impracticability of all expedients suggested of the general gauge have already come for its abatement, nothing remains but to into contact with those of the exceptional gauge; and experience has proved Mr. Brunel to have fallen into a serious error, when he declared, so explicitly, that the exwhen he declared, so explicitly, that the exemple of the country by the exceptional gauge (which would render necessary the enlargement of all bridges, viaducts, tunnels, when he declared, so explicitly, that the exemple of the country by the exceptional gauge (which would render necessary the enlargement of all bridges, viaducts, tunnels, and the exemple of the country by the exceptional gauge (which would render necessary the enlargement of all bridges, viaducts, tunnels, and the exemple of the country by the exceptional gauge of the country by the exceptional gauge (which would render necessary the enlargement of all bridges, viaducts, tunnels, and the exemple of the country by the exceptional gauge of the country by the exceptional gauge (which would render necessary the enlargement of all bridges, viaducts, tunnels, and the exemple of the country by the exceptional gauge (which would render necessary the enlargement of all bridges, viaducts, tunnels, and the exemple of the country by the exceptional gauge (which would render necessary the experience).

Exeter, where the exceptional system of without interruption to the traffic, at a cost of railways now prevails, is about to be insu-something less than a million sterling. lated from the remainder of the country, by a river, too wide and too deep to be cross- quired to subject themselves to such an exed by a bridge. The commerce between it pense for the common good; that still less nication must displace, in a great degree, if and the districts north and south must be concould the shareholders of other lines be so not altogether, the public highways, as well veyed by ferries at each point, on the banks of this river, where the railways respectively abut. Passengers arriving on either side must leave their carriages, taking with them their impedimenta, great and small—such as ought not to suffer itself to be made the vic- over the new ways of intercommunication begs. And all this must happen night and day, in fair weather and foul. and children must, equally in the pelting quarter, it must come from the public treastorm, and in the darkness of night, bustle surv. their way through the mud from the one train to the other. The trains of merchan-legislature, the privileges and rights contemdize must all be unloaded and unpacked on plated, as well by the companies as by Parone side, and reloaded and repacked on the liament, were merely those necessary to enother; to the loss and damage of the owners, able them to construct and maintain a road, one side, and reloaded and repacked on the and delay and cost of transit; for some one which was to be open to all who might de-scribed conditions and limited periods. must pay for all this labor, and who that sire to use it, on the payment of a certain toll Such were the broad general principles assome one shall be, it is not difficult to tell.

Regiments of porters must be maintained at railway presented no condition or features to country of the world—Great Britain alone these limits of the exceptional gauge; and distinguish it essentially from any other excepted. must be relieved by relays from time to highway. But simultaneously with the and day. And this is to be going on perpetually through the year, and from year to gauges, involving many complicated points of practical engineering, is one upon which all that part year, as long as railways shall endure, along of the world beyond the immediate profession of

Queen's Commissioners, duly appointed, exceptional gauge. But none would now think of and a ponderous mass of evidence has been disturbing the uniformity which all agree to be of and a ponderous mass of evidence has been collected. The result is, that either the ordinary or the exceptional system of railway affords all the sufety, comfort, regularity, and speed, which the public can possibly desire; that they both have ample power and capacity to satisfy all the wants of commerce which either exist or can be disturbing the uniformity which all agree to be of paramount necessity. The engineering profession of France, Belgium, the Germanic States, and other countries of Europe, and that of America, have adopted the ordinary gauge (564 inches), although they were free to have selected a wider one. Thus, so far as regards engineering authority, we have in one scale the entire engineering profession in every country in the world; and in the other, the solitary invidual authority of Mr. Brunel.

quently no inconvenience to themselves or claimed are so minute as to be discoverable engine broke its shell and emerged in its in-the public was feared. Indeed none, in that only by those pledged to the success of the cipient form. Its growth was rapid and pre-

The magnitude of the nuisance, then, be ceptional system could never derive its traffic from the general lines of the country. One point of contact has been produced, and a line of others must ensue. The question then arises, what is to be done? then arises, what is to be done?

The narrow strip of England, extending westward from London towards Bristol and tion, but the latter could be accomplished,

It is contended, however, that the excepnorth and south. It will be, so far as re-tional lines having been constructed under gards railway communication, as though it the sanction of an act of Parliament, the were separated from the rest of the kingdom shareholders could not with justice be regreat-coats, umbrellas, parasols, and carpet tims of this nuisance; and that if the expense of its abatement can be obtained, The wife consistently with justice, from no other

When the earlier railway bills passed the

\* The question of the relative merits of the two a boundary line running on both sides parallel to a main railway, 200 miles long!

But it may be asked, whether there is no countervailing advantage to set off against this intolerable evil? A long and expensive inquest has been held on the matter by the counterval gauge. Somewhat wider, but not the counterwal gauge. But none would now think of the world beyond the immediate profession of civil engineers, can only judge by the weight of authority on the one side, and the other among the members of the profession itself. Perhaps there never was a question on which so little real practical difference of opinion prevailed. Nearly the ordinary gauge. A few, were it all to do again, would have adopted a somewhat wider, but not the exceptional gauge. But none would now think of

on them, made advances. The locomotive cuted, were novel. In a word, a system of carrying mechanism, of an entirely new structure, was produced. This mechanism was made for the railway, and the railway made for it. The system had unity and connection. It was impossible to separate it; and the carrying business could only be conducted by those who had the direction and management of the railway. The companies, therefore, found themselves—by a necessity arising from the very nature of things, and whether they liked it or notcarriers as well as road-owners. Not only was this the case, but they were necessarily the only carriers. It was impossible even to imagine the public bringing their private engines and private carriages on the road. A colossal monopoly, never contemplated by Parliament, nor even foreseen by the companies themselves, had come into being.

The moment that it became apparent, in the practical results of the operation of railway in England, that these lines of commuwhich were about to be substituted for them. But a further and more stringent power was everywhere claimed, as the consequence of the inevitable establishment of the monopoly of transport on these roads. The state must either assume that monopoly itself, as it does universally in regard to the conveyance of the correspondence of the public; or if it were conferred on pri-vate bodies, it must be under rigorously pre-

In some cases, it was the policy of the state to reserve to itself not only the construction but the maintenance and working of the principal railways. An obvious advantage attended this. If it seemed expedient to the legislature, the transport of goods and persons might be used as a source of revenue; as the conveyance of correspondence generally has. Or, if the state were guided by a different policy, and considered facility of intercommunication an advantage paramount to revenue, it could fix the tariff so that the net produce would merely pay the expense of transport. Thus, as England sacrificed a portion of her revenue for the public advantage of a penny postage, other countries might consider it good to establish a system of penny travelling. The indirect advantages to the exchequer might more than balance the revenue lost a

plete success. All the principal railways lease, obtains the grant, of that country are in the hands of the Before the successf of that country are in the hands of the Before the successful establishment of state; and the tariff is so regulated as to some of the earlier passenger lines, the

In cases where the state decides against working the railways, it sometimes, wholly them for a term of years, to a company who however, the results of these first lines have pays a premium for the lease, and completes become known, and capital has been elsethe lines at its own charge, if they are unfinished. In these leases, there are various pany-reserving a right of revision to the

for fifty years. But, subsequently, the go-established long before lines for passengers vernment recovered by purchase the roads, and general traffic were contemplated. and now for the most part the railways are under the control and management of the

subject to the control of the state. The the companies capital at a low rate of intariff is subject to revision by the govern-ment, and the profits are not in any case to tee of the state for the capital raised. In companies submit their accounts annually to ted. In some cases, the dividends are lim-

cupation of the state lands. In some cases years. fine, the establishment of railways is generally a matter of bargain between the state and the company. The latter receives a lease for a term of years, for which it pays a certain premium. This premium is expected in the total or partial construction of pended in the total or partial construction of the tenure of the companies. Not only is evade the provisions, few and ineffectual as a general power of supervision and control they are, which the Legislature has made to pended in the total or partial construction of the tenure of the companies check the evils of their monopoly, the larger

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ald us, through the intervention of the department des ponts et chaussees. Ultimately the line is offered to competition by the Minister of public works, who names the major limits committed the singular imprudence, of sur-swered, that when these limits were fixed,

Belgium acted on this principle with com in sealed proposals to accept the shortest polies can continue to exercise the powers

produce about four per cent, interest, on the French government found it necessary to capital invested in the construction of the extend some further inducements to attract capital to these enterprizes. Thus, in the Versailles, Rouen, and Orleans, leases of or partially, constructs them; and then lets ninety-nine years were granted. Since, where more generally attracted to railway enterprizes, the state has effected much more clauses restricting the power of the com- advantageous bargains. The great northern line to Brussels has been taken on a lease of state, fixing the major limit of the fares, the thirty eight years; the Orleans and Bordeaux check each other. The practice of amalgaconditions on which the state can cancel the on a lease of twenty-eight years; the line lease, and the terms on which the line is to from Tours to Nantes on a lease for thirtybe surrendered by the company at its termi- four years. Of the entire system of French lines, there are not more than one hundred In Austria, the railways were, in the first and twenty miles granted in perpetuity; and instance, conceded to companies on leases these are chiefly coal and mineral railways;

In the United States, the state governments have generally reserved, in one form or another, a right of control over railways established on prescribed conditions, the capital has been replaced, the tariff is to be some cases there is reserved a right of reserved that the profit shall not exceed the expenses of the working lines.

In Bavaria, the lines are leased to com-

In France, the system of railways, with a few exceptions, has been planned, and in many cases constructed, by the government, private companies will cease to exist—unless such as the government may think fit to established limits to the tariff of railway.

of the duration of the lease, and rate of the rendering, without available conditions, and the legislature had no sufficient data by tariff. The company or individual who for an indefinite time, its public communication which an equitable amount could be established. That such mono-lished. Can it for a moment be maintained,

granted to them, without the abo which all monopolies have been obnoxious, is not to be conceived. There are already tendencies manifested to struggle for the private objects of these bodies, against the fair claims and interests of the public. The cases of the lines from Paris to St. Germain, railway companies, as they first acquired Versailles, Rouen, and Orleans, leases of their rights of incorporation, were numerous. Each line was a separate property, and ruled by a separate Board of Directors. Although it appears that no such thing as a competing line is practicable, yet in this mul-titude of lines, there might be expected something approaching to competition; many small monopolies, it might be hoped, would mation and combination, which has begun already to prevail so extensively, must, however, dispel these hopes. The lesser companies are severally gravitating towards and coalescing with the greater bodies; and instead of a great number of small monopo-lies, in which the system commenced, it is now tending towards a small number of great monopolies, in which it must ultimately terminate.

The indisputable existence of these mo-In Prussia, the construction and manage. In some cases, they are themselves the chief nopolies, and the liability of the abuse of ment of railways are conceded to companies, shareholders; in some, they have lent to their powers to the prejudice of the public, necessarily seems to infer the assumption of a corresponding control on the part of the legislature; for to suppose the indefinite be allowed to exceed ten per cent. The all such cases, the right of control is admit. continuance of an arbitrary power over the personal and commercial communications of the Minister; and when, by a sinking fund ited to ten per cent, the legal interest of the country, exempt alike from the opera-

panies for a term of years, the tariff being rethe charters of the companies contain a when it occurs, it will be time enough to
vised by the state annually, for the first three clause investing the legislature with an ab
provide for it. But is it not certain, that years after the opening of each line, and sub-solute right at any time of modifying them measures have been already taken to newsequently every third year. Privileges are Subject to such conditions, the railway trailize the competition of the canals in the in some cases conceded to companies—such charters in some states are not limited in transportation of merchandize? It was as exemption from, or reduction of, the im-duration; but in the principal states the proved before Mr. Morrison's committee, port duties for materials, and gratuitous oc-duration varies from fifty to one hundred that some of the companies have already succeeded in getting possession of portions the state levels the ground at its own charge; By the system so widely pursued in of canals, on which they have raised the tolls in others, it executes the earth-works. In France, and most other countries, the ad- to their parliamentary limit; thereby parathe road. It submits to certain clauses au being limited in duration, the entire internal and more powerful companies have created thorizing the interference of the state with communications of the country must revert fictitious shares in enormous numbers, so as its tariff; and at the expiration of the lease, receives a fair value for its stock of moving power and machinery for transport.

Thus, at to make their capital appear larger, and their receives a fair value for its stock of moving the expiration of forty years, all the chief profits consequently smaller, and thus to expower and machinery for transport.

worked at half the present current expense, constructed. But what, in fact, has been its equipment falls short of one million of dol-the public would not have the right to de-done? In this, the most active country in lars. The road extends into the midst of a

structed for half the expense of an existing sentative governments, we have passively line, or, supposing the expense to be the surrendered the entire system of national same, if it were constructed by parties who highways, without a single practicable rewould be satisfied with a dividend of five inmake a corresponding reduction in the fares on the present line. One or other of these best to them and their heirs, now and for those employments which yield more than roads, which no one can use except by the charges of the old companies."

Although it

than on any other European lines. first-class fares are sixty three per cent. higher measures are in progress which, it may be than those on the French and German rail hoped, will correct these evils, as far as reways, seventy-five per cent, higher than the trospective legislation can correct them. Belgian, one hundred per cent, higher than The right of Parliament to establish a syson the Italian, and one hundred and sixty per tem of reasonable control over the inland cent. higher than on the Danish lines. The communications of the country, cannot, as we second-class fares are fifty per cent. higher conceive, be denied. All practicable comthan those of France and Germany, and one petitions having ceased to be possible, administrative control must supply its place. A those of Belgium and Denmark. They are Board of Railway Control must be estab one hundred per cent, higher than those of lished. But, to be really useful, it must be Italy. The third-class fares are sixty-six invested with powers much more extensive per cent, higher than in Belgium, one hun-than those possessed by the late railway de dred per cent. higher than in Denmark and partment of the Board of Trade. The great Italy, thirty three per cent. higher than in object of the government should be, to bring Germany, and fourteen per cent, higher than the power of such a body to bear on the ex in France. In no other country are the isting railway companies, in such a manner working classes conveyed in a manner so as to protect the public from the abuses in-discreduable to humanity, and to the true in-cidental to them, without violating in spirit terests of the carriers themselves. In short, that contract, whatever it may be, which they it is evident that the abuses which have at may have made with the State. The beneall times and everywhere attended monopo- fit of such a system of control, rightly admilies, have already manifested themselves in nistered, will not be confined to the public as our Railway management, and are certain opposed to the monopoly of the companies. to augment, to the great prejudice of the It will extend to the companies themselves

ted a serious error, in permitting the Legisthe course of legislation which has prevailed dangering their prospective dividends.
in regard to railways. With an enlightened public, a vigilant and free press, an unre-stricted right of discussion and petition, and the habit of the legislature to wait for the expression of public sentiment on such mat ters, it would be unjust to throw upon Parliament, or the administrations of the day. the exclusive blame of the mistake that has been committed. The public itself must bear the principal share of that blame. What is the actual state of the case? A new method of intercommunication was discovered, infinitely exceeding all former methods in cheapness, expedition, certainty, and regularity. Surely this rare opportunity ought to have been seized, to procuie

mand a proportionate reduction in the carry-the world, with a press absolutely free, with fertile country, occupied by a busy, active and unparalleled facilities for the diffusion of enterprizing population; and taking all things ing tariff? unparalleled facilities for the diffusion of "If a new line could in any case be con-knowledge, and the most perfect of all represtead of ten per cent, parliament is bound to number of private individuals, to deal with tens of thousands of passengers annually. results must take place; for if the principle ever. England has ceased to possess highbe true, that capital will force its way into ways. The country is intersected only by

Although it be not till the eleventh hour. The fares on British Railways are higher still, the attention of Parliament has been an on any other European lines. The called to this most important subject; and some of which have already discovered that It would be folly to close our eyes upon the maximum of profits is not necessarily atthe fact, that the British public has commit-tained by the maximum of fares; and that it is possible to consult the interests of the Publature to proceed from session to session, in lic, by moderating their tariffs, without en-

## Lewiston and Waterville Road.

The Portland, (Me.) Advertiser says that, some very interesting statistical facts have been placed before the public in relation to this road, which cannot fail to have produced in impression favorable to the project. is no visionary scheme—no idle speculation. but a grand, substantial, practical measure. which must give large and permanent pros perity to Maine. We do not fear contradic ion when we say that it will form the grand runk of railroad communication through the neasures will be in progress to extend it to Bangor, where it will then have but half ac complished its object.

that if, by any new inventious, railways the establishment by law of a suitable ad-could be constructed by the expenditure of ministrative Lody, under which a prudent half the capital sunk on those now open, and system of inland communication might be miles; the estimated cost of the road with all together, the most productive in the state. It passes through towns and villages full of manufacturing industry and resources, which send now to the sea board their thousands of tons of produce and manufactures, and their

The road will command the business of the counties of Franklin and Somerset, and a considerable portion of Kennebec, Piscataquis and Waldo, to which it will afford facilities, which will give an immensely accellerated force to all their resources and energies. The people upon the whole line of the road and through the large region which will be opened to a market by it, are prepared for action. They have already resolved that the work shall be done. They have commenced a liberal subscription toward it, to which liberal additions will be made. They ask of Portland to respond to this noble effort; they say, give us \$100,000 or \$150,000, and we will soon send into your beautiful city, trains of freight and passengers which will astonish the incredulous.

And will not Portland heartily respond to this patriotic call? It is but loaning the money on the best security. The recent dividends of 4 per cent. semi-annually, in the Lowell, Providence, Worcester, Taunton Branch and Eastern roads invite us to invest; and from a careful comparison of all the statistics relating to this projected road and those of Massachuseus, we do not hesitate to say that the stock in none of them will go before that in the Lewiston and Waterville company for the amount of profit.

By a vigorous action now, we shall secure this great privilege: we strengthen the hearts and hands of its friends in the country, and give it an impetus which will push it through every obstruction.

We hazard the prediction, which may seem bold to some, that when this road is completed, or even before, a branch will be made to Gardiner or some other point on the Kennebec, which will afford a cheaper mode of communication than any they will otherwise have between the river towns, and Portland and Boston.

Railroads are the great works of our day; they furnish the most desirable means of investment; they open uncultivated lands to a profitable and useful culture; they give life, activity and value to unemployed water power, dormant energy and capital; they build up waste places, increase the power and prosperity of states, and promote national aggrandizement.

Let the people of Portland come forward now and aid this great enterprize, which will state. Before it is completed to Waterville, give a permanent prosperity to all their in-measures will be in progress to extend it to terests. They have done nobly for the great Canada road, and for the iron company which is to put on it, the winged steeds; "Once The length of the contemplated road from more into the breach my friends, once more !"

#### PRINCIPAL CONTENTS.

Railways at home and abroad	
Lewiston and Waterville road	24
Atlantic and St. Lawrence railroad.	
Railroads—the telegraph—sundreis.	26
Pittsfield and North Adams railroad	1
Mining in Australia	
Little Miami railroad.—Superintene	dent's report. 28

### AMERICAN RAILROAD JOURNAL.

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Saturday, January 9, 1847.

# PHILADELPHIA, WILMINGTON & BALTIMORE RAILROAD .-- 1847.

Winter Arrangement.

Philadelphia for Baltimore ... 8 a.m. and 4 p.m. Baltimore for Philadelphia...9 a.m. and 8 p.m.
Connecting in Baltimore with Mail Lines south and
west, as per notice of the Baltimore and Ohio Railroad—and with Mail Lines north from Philadelphia,

both morning and afternoon.

Sundays, the Morning Lines do not run in either direction.

Accommodation train from Wilmington to Philadelphia, leaves Wilmington at 8 a.m., and returns at 2 p.m.

J. R. WIMBLE, Engineer and General Superintendent.

#### Little Miami Railroad. Superintendant's Report.

In another portion of this day's Journal, appears the Superintendant's Report of the Little Miami Railroad Company, for 1846. The reader is referred to the official document, for the details of the condition of this road-by which it will be found that the receipts have reached a higher amount than was looked for, at the last annual report-though the amount does not come up to the maximum, which the business of the country would have guaranteed, but which has been lost to the road, on account of the deficiency of their motive power. An additional business is brought to this road, by the opening of the line to Springfield, but a very serious accident which occurred by a collision on the 13th of August last, the failure of the builders to furnish (as per contract) certain locomotives and cars, in season for the fall trade, and other causes, duly enumerated—account for the deficiency of the receipts; matters which will be corrected at an early day, if the recommendations of the able superintendant are acted upon. Mr. CLEMENT has exhibited the most untiring energy in the discharge of his duties as Superintendant upon this road, and we are glad to learn that the pros-pect ahead, promises very favorably for the company.

Central (Pa.) R. on the Canal Towing Path. We find, in a recent number of the United States Gazette, a communication from F. P. Holcomb Esq., in relation to the construction of the Central Railroad to Pittsburg, on the towing path, or bank, of the canal. He goes into the calculation, and makes it appear that the cost of construction-in the event of using the Portage railroad as a part of the linewill be much less, and the line much better, than by any other route yet indicated. He might also have said-what is equally important-that it can be completed in less than half the time of any other line.

à

If Mr. Holcomb's suggestions meet with equal favor in this, as in another case—we refer to the New Haven canal-he may consider himself highly complimented. By referring to the tenth volume page 360-or the number for June 15, 1840-of the Railroad Journal, will be found a communication dated "Engineer Camp, Central Railroad, Geor-gia," in which he recommends the construction of

midents will oblige us by sending in their a railroad along the canal to Northampton, and lantic, are the White and Green mountain ranges gives an estimate of its cost. Little disposition, it is true, was then manifested to carry out this sugdresses and Ammonocomek rivers with no in gestion: and years passed before it was acted upon; but the work is now in course of construction, for at least a part of the way; and so may his more recent proposition meet with favor. We shall give his letter at length in our next—long as it is for our pages—that he may speak for himself.

#### Iron Rails in England.

We are indebted to an eminent mercantile firm in New York, for the following extract of a letter, giving the results of practical experience in England on this subject. They say "it has been ascertained by practical experience in England, that the rail, necessary for rapid movement over it, or for the conveyance of merchandize, should be heavier than the rail now in use there. The extract from a letter now before us-written by a practical and intelligent gentleman in England, largely interested in nations not exceeding 20 feet per mile. The curvarailroads now under construction in the United States, and of course desirous that said roads should be well constructed for speed and heavy traffic—in the space of ten hours, and the largest class freight says, (under date of 2d December, ultimo:) 'The experience we have obtained here, is, that the usual weight of iron heretofore used, of say sixty-five ried forward. Our express trains now travel from forty-five to fifty miles per hour, and carry enormous weight of merchandize, which has already it to the companies now constructing roads, in grades are required, to wit: which we may be stockholders—that they may avail of our experience in this country as a guide to a right construction of a road intended for rapid travel and conveyance of produce and merchan-

Our own observation has led us to the same conclusion; and we have no doubt but that, on all our main lines, rails of 75 to 100 lbs. to the yard will be main lines, rails of 75 to 100 lbs. to the yard will be ultimately used; it is therefore important that they should, as far as possible, be constructed originally with the heavy rail.

#### Atlantic and St. Lawrence Railroad.

from Mr. Septimus Norris. He says:-" Accord-Atlantic c ties with the western lakes; and, at one will be straight, and the curvatures will be easy. greatest and most unquestionable advantages over propriety of having a wood cut made of a map half that on the Western road. the size sent you, showing the different routes—and, as I can get no better or more correct information, for 1845, was....

The total expense of operation of the road I have the consent of A. C. Morton, Esq., chief engineer of the Atlantic and St. Lawrence railroad, to make my extracts from his report, a copy of which The net income was .... f also send you.

There is but one summit, or main dividing ridge, large streams, affording long and easy slopes for of the road, £2,000,000, will be equal to an annual overcoming its elevation. The principal highlands dividend of 10 per cent. intervening between the St. Lawrence and the At-

. We have received the map, but not the report

droscoggin and Ammonoosuck rivers, with no inclination exceeding 40 feet per mile; with but a slight undulation in the grade of the road, and no heavy work whatever. The latter extends into Canada, but falls off as it approaches the St. Lawrence basin, and is principally avoided by following the valley of the St. Francis and Black rivers. There is no line of equal extent, connecting the western waters with the Atlantic which will compare with this for the great extent of easy grades, straight lines and cheap construction. While other lines are subjected to great disadvantages from steep grades, abrupt curvature and excessive cost, this is happily exempt from nearly all.

A large portion, equal probably to one-half the whole of this road, will be either level or of inclitures are all easy, and nearly equivalent to a straight engines will be able to transport 200 tons over the road in either direction.

As regards the cost of transportation on the St. pounds to the yard-will not suffice for the rails-if Lawrence and Atlantic railroad, the most satisfactothe speed of travel and weight of traffic is to be car-ry information would be gained by comparing it with some line of nearly equal extent and facilities and designed for general trade.

Perhaps no other road, at present in operation, as led to the necessity of changing the weight of rail proaches nearer to it, as it regards its object and de to eighty pounds per lineal yard-and many are sign, than the Western railroad in Massachusetts; calculating on the necessity of going to one hun-yet the cost of transportation on this road will much dred pounds per yard—as a matter of economy to exceed the St. Lawrence and Atlantic, from the more guard against the necessity of taking up a lighter unfavorable character of the grades and large amount and laying down a heavier rail. We call your of curvature. On the Western road there are three attention to these points, and request you to so state elevated summits, to surmount which the following

miles of 60 feet per mile.

miles of 68 and 69 feet per mile.

formules of 74 feet per mile.

miles of 78 and 79 feet per mile.

miles of 824 and 83 feet per mile.

The total rise and fall is over 4000 feet. The length of curved line on this road is 754 miles, or 48 per cent. of its whole length, and the minimum radius 8594 feet.

Relative to the grades on the road from Montreal to Portland, the inclination probably, on one-half In reply to our request, we have the following in- the whole distance, will not exceed 20 feet per mile, teresting letter, dated Portland, December 26, 1846, The maximum grade, as indicated by the surveys thus far, will be 50 feet per mile, and this is coning to promise, I now beg to hand you, enclosed, a fined to comparatively a short distance. It is bemap, showing the different railroads connecting the lieved that from 80 to 90 per cent, of the whole road glance, it will be perceived Portland has by far the In the comparison, therefore, of these roads, it is be lieved that we are fully sustained by the above facts any other Atlantic city, being but 280 miles-Boston in the conclusion that the cost of transportation on 525-New York 475. I would suggest to you the this road will not equal, but fall considerably below

for 1845, was....

The St. Lawrence and Atlantic, and the Atlantic and St. Lawrence railroads, will be about 280 miles between the waters which flow into the St. Law- in length, 130 miles of which are in Canada, and rence and those flowing into the Atlantic; and the the net annual income, supposing it to be in the approach to the summit is through the valleys of same proportion as the Western road, and the cost

It will be observed that, in the above estimate of

The first extending from Portland to the line and the latter from Montreal to the line.—Er. R. R. J.

on the Atlantic and St. Lawrence road will be as etc., for the Atlantic and St. Lawrence railroad. great as on the Western road, which evidently will Portland has now become my home, and I assure not be the case. And it is also assumed that the cost of the whole road to Portland, will be two millions pounds currency; which is a much greater sum than received here by the citizens with great cordiality, it has been estimated to cost.

Applying as above, the business of the Western assuming the cost of the road to be £1,750,000, the road, etc., which, no doubt, will prove interesting. net revenue gives a dividend of 111 per cent.

In the construction of the Western road, great ob stacles were to be overcome. A mountainous section of country was to be crossed, requiring, as already stated, heavy grades and a large expenditure of money. To give an idea of the formidable obstacle encountered, I would state that one section of this road, known as the Mountain Division, comprising a distance of 14 miles, cost £245,000 or £17,500 per mile, and a single mile cost £51,982. ry to letting the sub-contracts. The total cost of the road up to January 1, 1846, was £1 999.888.

competition, with steamboats on the Hudson river and another railroad. Notwithstanding these unfavorable circumstances, the gross receipts in 1845 year, will probably equal a dividend of over 6 per cent. on its cost.

With reference to the Atlantic and St. Lawrence railroad, as a great thoroughfare, it occupies a most remarkable position, connecting, as it does, the St. Lawrence and the Atlantic, at a point where the New England coast approaches the nearest to the western waters, and having a large and populous city at either terminus, with capacious harbors and a rich intervening country, it cannot fail to be one of the most important and profitable roads yet commenced. From its peculiar position it never can line from New Haven to New York, it is to be comcheapest channel through which the travel and trade of the provinces can reach the sea board.

With a long line of natural and artificial communication connecting Montreal with the western waters, and the far west, it cannot be doubted that the completion of this last link will change entirely the channel of trade; open new resources; and add vastly to the business of the public works of the province, and to the wealth and enterprize of the country through which it passes. To the city of Montreal it is of vital importance, situated, as she will be, at the foot of this long line of communication on the one hand, and within 10 hours ride of one of the best harbors of the Atlantic coast on the other, she must unavoidably receive large accessions to her

The foregoing, and an inspection of the map, lar charters. will prove to any ordinary mind that Portland is a few years, go far ahead of Boston.

You are, perhaps, aware, that I have received a contract from the Atlantic and St. Lawrence railroad for all the engines, car castings, etc., required for this road, all of which are to be built in Portland. I am also in treaty with them for the supply of all their rails, to be manufactured here.

A company has been chartered, and stock subscribed to the amount of \$250,000, called the Portland company, of which I have the appointment of director and chief engineer. We have purchased about eight acres of land in the city of Portland, the project of a railroad from Portland to Angusta, 1st of April, I hope to have 500 operatives at work, was resolved, unanimously, that the citizens of Bath character rather differently.

revenue, it is assumed that the cost of transportation manufacturing rails, locomotives, cars, castings, you I have no regret at leaving Philadelphia, where I have resided for the last ten years, for I have been which makes me already feel at home.

I will, if you wish, again address you, giving you road for 1845 to the Atlantic and St. Lawrence, and the progress of the Atlantic and St. Lawrence Rail-

Your friend, sincerely, SEPTIMUS NORRIS.

Railroads-The Telegraph-Sundries.

We collate from our list of exchanges for the last reek, the following items of interest.

The whole amount of the stock of the New York and New Haven road-\$2,500,000-has been subscribed without condition, and the contractors and engineers are busily engaged on the line preparato-

From the late letter of Mr. McLane, president of the Baltimore and Ohio Railroad, the Pittsburg jour-In its business, it has to contend with a strong nals have discovered that their city was not to be benefitted by the grant of the "right of way," so their journals, to cease to look forward to a connection with Baltimore, and direct their means and energies to other works-those of connection with Philadelphia or the lakes.

The New York Journal of Commerce states that upon the canal railroad, leading from New Haven to Collinsville, along the line of the Farmington canal, the grading is already commenced. On the is gaining considerable accessions to its subscription list, and its friends are increasingly confident that it will be made, and that speedily. The Housatonic railroad gets nearly all the travel from Albany to New York. The Erie is going forward railroad from New Haven to Boston, is to be held at Middletown in the course of a week or two.

We learn from the Kennebec Journal, that the destined to be a great commercial city, and will, in citizens of Hallowell held a meeting at the town subscriptions in that town, and measures taken to increase them. The meeting was addressed by gentlemen of Hallowell, Gardiner and Augusta, and before adjournment, it was voted by acclamation that a mass meeting for the towns of Hallowell, Augusta and Gardiner be holden on Saturday last, at 10 o'clock, at the town hall, and that the citizens of those towns, one and all, be invited to attend.

At a meeting on Monday evening last, at Bath, having a wharf on the harbor of 900 feet, upon Me., by way of Brunswick, with a branch to Bath, The great commercial emporium of the "Empire which our buildings are now erecting, and, by the was considered by the citizens of that place; and it State" should do better—and treat a project of this

will have a railroad under the Portland and Kennebec charter; and that said road should eventually pass through Waterville to the Penobecot; and that they are opposed to any railroad from Portland to the Kennebec, that does not connect with Brunswick and the principal towns on the Kennebec river. It was also resolved, that it is expedien t- and the directors are requested-to commence the railroad between Brunswick and Portland, as soon as in their opinion a suitable sum is subscribed therefor. This is a good move, and we are happy to see the disposition evinced in Maine, to have a railroad connection between their commercial city and the capital of the state.

We regret being obliged to allude to a most discreditable occurrence, which took place at the Tabernacle, in New York city, last week, upon the occasion of a meeting of the citizens there, to give Mr. Whitney a hearing upon the subject of his great railroad project to Oregon. However parties or communities may differ in opinion in regard to the feasibility, or present practicability, of this immense scheme, or in reference to its originators, we cannot but enter our protest against all attempts like the much as they supposed. Mr. McLane very frankly one we speak of, to injure the projector or the plan, admits that the object sought was a connection with by such means as seems to have characterized this was, £203.307, and its net receipts for the present the Ohio river at a point much lower down than scene. It appears from the New York accounts, that Pittsburg, and the connection with Pittsburg only a the meeting was called in due form, and the Mayor subordinate aim. The avowal has abated the zeal of of the city was called to the chair, but while Mr. the people of Pittsburg, and they are advised, through Whitney was explaining his views, there was considerable noise from certain of the national reform party gentlemen, who think that what the nation possesses, ought to be divided at once among the people! After Mr. Whitney had closed, a Mr. Ryckman made a speech against the plan. He had some resolutions which he would read, in spite of the call of his own party for a person named Shepherd.

The Courier and Enquirer adds that, " having got be subject to competition. It is the shortest and menced in a few days. The Hudson river railroad through these MS, resolutions, the cry for Shepherd was most tumultuously and uproariously renewed and continued-until it soon became manifest that no rational proceedings could be had, and after in vain endeavoring to restore order, or obtain a hearing, his honor the mayor, after consulting with some with a good deal of energy, and measures are in of the Vice Presidents, put on his hat, and with the progress for connecting at several points by lateral other members of the meeting, left the platform, derailroads, with the railroad from Albany to Buffalo. claring the meeting dissolved. An instantaneous A general convention of the friends of the Air line rush was made for the platform, by these friends of equal rights and universal agrarianism, and a Mr. Comerford began forthwith to hold forth to all who The bill to charter a railroad from Raleigh via remained in the tabernacle; when, in the mid volley Fayetteville, to Camden, S. C., as well as the bill to of his eloquence, the gas was tarned off-and sudcharter the Wilmington and Manchester road, have den darkness fell alike upon audience and orator. been passed by the North Carolina Legislature.- The effect was electric-with a shout of laughter, trade and commerce, and a vast increase of wealth. South Carolina (just adjourned) also granted simi- the disturbers turned from the invisible spectre and groped their way hastily into the wet streets.

" And thus disgracefully ended a meeting, invited under the most respectable auspices, of citizens, hall on Wednesday evening, on the subject of the calmly to consider a great national project-in which railroad. A report was made of the state of the this city has a special interest. The disturbers were men who, for the most part, have little or no interest in the city, and whose element of existence and notoriety seem only to be strife and opposition to all settled principles and established law.

"It was the triumph of agrarianism-lawless as landless-and well fitted to make reflecting men shudder, when a peaceful and legal meeting, for an honorable and patriotic purpose, could thus be converted into a bear garden."

Our regret for such an occurrence is most sincere

nd as follows, in his late message. He ions have been expre at the construction of the great Central railroad, between Philadelphia and Pittsburg, may be the means of diminishing the income from the improvestern and western emporiums, and the regions which connect with them, will not only add to the revenue of the Columbia railway, but will greatly the first practical result of this great discovery. increase the productiveness of all our public works. Such, I believe, has been the experience of New tic telegraphs, when well managed, are a safe and York, and such, I doubt not, will, in a very few profitable investment. years, be that of our own common wealth."

An exchange paper states that the first bar of American railroad iron was mad- in 1844, and there are now sixteen or eighteen mills, at which it is made; at the rate of about one hundred and twenty thousand tons per annum. This amount is sufficient to lay four miles of railroad per day, or twelve hundred miles per year. The progress of this manufacture, in the short space of two years, in this fearful. country, is very remarkable and is a striking manifestation of American enterprize and skill.

We perceive by a paragraph in the New York Sun, that Mr. Isaac Meikle, of Camien, N. J., is applying gun cotton to the propulsion of machinery in his factory. The engine is constructed on the ordinary horizontal steam engine, only there are two cylinders, one working in the other. The gun cotton is ignited by electricity, engendered and applied in a novel manner. Any degree of power may be obtained. It is said to be safer than the ordinary steam engine, and one person can run it.

Telegraph lines are being extended rapidly in all directions, and the time is not far distant when the extremes of our land-east, west, north and southwill be brought, by this means, within a few hours

perhaps minutes, of each other.

But a few days since, a message was transmitted along the lines from Buffalo by the way of New York and Philadelphia to Pittsburg, a distance of 950 miles by the wires, and an answer returned to the starting point in less than two hours, counting all detentions it met with at the different stations. Nineteen hundred miles were thus traversed in this short space of time by the message and the response!

The line between Philadelphia and Pittsburg is now in perfect order. A slight disarrangement caused a stoppage on Tuesday, which was obviated the next day, and the communication resumed. The Pittsburg papers publish every morning, the reports of the markets in Baltimore, Philadelphia and New York, up to the previous evening. This shows the great benefit of the Atlantic and Ohio Telegraph, and the energy and enterprize of the publishers.

Governor Young commenced reading his mes sage at Albany at twelve o'clock on Tuesday, and at four o'clock in the afternoon, it was published entire in New York city, in an extra. The mes sage contained 5,000 words, or 25,000 letters, and was written from two instruments in the Albany office, by Messrs. Carter, Buell and Johnson, and read in the New York office by the Messrs. Woods, at the average rate of 83 letters per minute, or two and a half hours for each instrument. Professor Morse's original estimate to Congress for the des patch with which communications could be sent by his telegraph, was thirty letters per minute; here we see the number almost trebled, in a long public document. The press had arranged to receive the mes age by two other routes, viz : one by horse down the

at alludes to the great Central banks of the Hudson, and the other by the Houss- carefully guard against any representation

We learn from an exchange, that the New York and Buffalo line of telegraph company, have declared a dividend of three per cent. for the past four ents of the state. In this I do not concur; on the months. This is the first magnetic dividend ever atrary, I entertain the opinion, that the increased declared. The earnings of the line have been about mmerce which it will invite between our great \$11,000 since 7th September, of which the expenses have absorbed about one-third. Of this dividend the patentees get \$2700, which may be considered This line has now established the fact that magne

> Cincinnati papers received up to January 4th give some melancholy details of destruction, caused by a flood in the Big Miami on the 2d. Five lives were lost. The Cincinnati and Dayton canal is swept of bridges, and is broken and overflowed.-The Whitewater canal is almost irreparably damaged. The loss in lumber, flour, hogs and pork, is immense, and the destruction of mills, &c., is

> The report of the engineer and superintendant of the Little Miami railroad will be found in this day's Journal. We have referred to it particularly, in

another portion of our paper.

The interest evinced in the railroad direct from Boston to New York, is on the increase, and we are happy to find that the subject meets with general favor along the entire line of the proposed route .-We shall be greatly rejoiced when this important work is fairly under way, and present indications are decidedly favorable to its early consummation.

Pittsfield and North Adams Railroad. We are indebted to William H. Power, Esq., su-

perintendant, for the following statement. "The winter arrangements on this road are as follows, viz:

Leaves North Adams, daily, at 8 A.M. & 4 P.M. Leaves Pittsfield " at 111 " &8 "

"On the arrival of the train at noon at North Adams, stages leave for Williamstown, Hoosac, Pownal, Bennington, Manchester, Salem, Union Village, Rutland, &c.

"At Pittsfield, the trains connect, to and from, with all the W. R. R. trains, and with the mail line to Lenox and Lee.

"Length of road from North Adams to Pittsfield, twenty miles; fare sixty cents; time, one hour; stopping at South Adams and Cheshire, each way.'

The contracts for the construction of this road were not made until the 20th December, 1845. was completed and in use in 1846, and is now doing a very good and increasing business. Its extension to Rutland is not, we are sure, very distant.

Mining in Australia.

Within a few years past, a large number of the laboring portion of some of the mining counties of England and Wales, have taken passage for South Australia, and the emigration is increasing. The following letter, published in the London Mining Journal, is from a Mr. James Curnow, who left Cornwall for Port Adelaide in 1811, and is addressed to a friend in Penzance. If its statements be not highly exaggerated, South Australia is indeed the "land of promise:"-

I now fulfit my promise, made on my

tonic railroad. The lightning came in first, the horse that may mislead, or exaggerate, and the facts I shall state may be relied on. The most attractive element of wealth now known in the colony, is unquestionably our minerals. The quantity of copper ore jutting out on the surface, is incredible, and I am confident is not equalled in any known part of the world. The quantity of ore raised at the Burra Burra copper mines, in six months, is 2900 tons. which produce has been obtained by 30 to 50 working miners-in fact it has not been mining, but more properly quarrying. The miners of Cornwall will easily understand the importance of this mine alone: I could enumerate eight or ten others, of a most valuable description-but this one will be sufficient to show the extraordinary nature of this province in a mineral point of view; as an illustration of which, I would direct attention to the quantity of ore shipped to England, including several cargoes direct to Swansea, in the short space of two years, with a mining population not exceeding 200.

The other metals found here

are lead, silver, and gold-a rich vein of the latter having been found in several places in the virgin state. There are other metals reported to have been discovered, but which I have not yet seen-such as tin, quicksilver, platina, etc. The money paid to government within a short time, amounted to about £80,-000; and on Saturday last, £30,000 worth of land was purchased at public auction for mining purposes. Besides this, one or two special surveys, of 20,000 acres each, are about to be secured by old settlers, in a new district, which is most important, as the breadth of the area of our mineral district will thereby be considerably extended. Ores having been found on the surface in numerous places for about 150 miles in length, running north, and about 80 to 99 miles in breadth, from east to west. In fact, on other parts settled, such as Port Lincoln, beyond these limits, various discoveries have been made, and yet we are comparatively ignorant of the real extent of our mineral wealth. The greatest want now felt, is the scarcity of labor of every de-scription, but more particularly of working miners. I can state, from personal knowledge, that tributers have been getting lately from £6 to £20 per week, and men that never saw a mine before, get £2 per week. These wages are further enhanced by the low cost of provisions and other necessaries of life. give some idea to those unacquainted with the variety of productions which abound in this colony, I may enumerate the articles of wool, grain, gum, bark, whalebone, and oil, which, themselves, are enough to make this a prosperous community. I think I may say with truth, that such a concentration of the elements of wealth that we possess, is without precedent. The climate of South Australia is most healthy. The general opinion in England as regards the supply of rain, is very incorrect. The experience of ten years shows that no real scarcity of water has been leaving in 1841, of furnishing you with some information which may be useful to many of hot winds which prevail during summer for hot winds which prevail during summer for my friends in Cornwall, and others intending a short time, are, I may say, the only draw-to proceed to this part of the world. I shall back in this colony.

Superintendent's Report. OFFICE LITTLE MIAMI RAILROAD CO., Cincinnati, December, 1846.

To the President and Directors of the Little Miami Railroad Company.

GENTLEMEN-Below will be found a statement of the receipts and expenditures of the transportation department, for the year end-ing the 1st inst, together with such sugges-

this department generally.

The receipts amounted to a larger sum than was anticipated at the date of the last upon the best white oak timber as a string annual report, but have not reached the maximum by a large per cent. which the business of the country would have allowed, had the cient quantity of timber is on hand and under motive power and car departments been adequate to meet the demands upon them. One wants the ensuing year.

only, of the four locomotives ordered last The trestle work over the island at the winter, has been placed upon the track in Liule Miami river has been braced and othertime to be of service, since the date of the last wise secured, but will require extensive re report.

This failure on the part of the builders, together with the collision of August 13th, longest span on the line are being delivered, which rendered useless for two months, the and so soon as the delivery is completed, the only effective passenger engines on the bridge will be framed and placed under roof, road, have been the fruitful sources of delay ready for any emergency that may occur. and embarrassment in the management of the road, and disappointment and loss to shippers

The motive power is at present so deficient, of the 13th August, and replacing the frame compared to the demands upon it, that the and fire-box of the "Governor Morrow." most trifling accident, or the time required to make the ordinary repairs, which, under called to the necessity of erecting suitable other circumstances, would not be worth a shops for repairing locomotives and cars. second thought, become matters of serious As at present arranged, the cost of repairs is involved.

Since the date of the last report, the wooden ed with useless delay in many instances. rails and cross-ties have been renewed for the distance of ten miles, between Milford and duce the grades in Front street and through Foster's Crossings, in addition to the ordinary Fulton, or to remove the track out of the repairs on the remainder of the line. About street entirely. This last will undoubtedly an equal distance will require renewal in the same manner the coming year.

The six miles next to the city of Cincinnati, remain in the same condition as at the At present an extra locomotive is employed last report, with the exception of such repairs whenever the condition of the machinery will

passable.

At several points on the lower part of the road, slides occur after heavy rains, which interfere with the business of the road during.

The machinery, with the exception of or the winter months. About eight hundred locomotive, is in good repair. The motive lineal feet of wall has been put up to guard power consists of: against these slides, and its erection will be continued as fast as circumstances permit.

I would again call the attention of the Board to the importance of relaying this portion of the road with an I rail. Another season cannot be allowed to pass without re-laying it in some manner. The thin iron at present in use upon it, can be taken for the if not procured in this way, must be provided in some other, thus adding (in case an I rail is not substituted at once) to the eventual cost of selection with the required in the selection of selection with the required in addition, one freight, and one passenger engine. of relaying with heavy iron.

The estimated cost of relaying with an II rail, including materials, labor, ballasting road bed, etc., per mile, is as follows:

100 tons rails, chairs and spikes, at \$70	87,000
Ballast	800
2300 locust ties, at \$40	920
Other materials and labor	900
SHOW MAND AND AND AND ADMINISTRATION FOR THE LAND HOLD AND	
	\$9,620
Less value of old materials, say	2,300
serie bankerite sparrante may all us us and the	07 200

The cost of repairs of machinery, superstructure and road bed make up an importions as the experience of the past year has tant item of the expenditures, and this will known no other passenger has received the furnished, in relation to the management of continue to be the case, with a large freight slightest injury. traffic on a light plate rail like ours. Four years is the extent of time that we can rely piece, and after the third year the track frequently requires extensive repairs. A sufficontract to be delivered, for our probable

> pairs, or filling up with earth at an early day. All the materials for a bridge of the

> Under the head of repairs of locomotives is included damages caused by the collision

The attention of the Board is earnestly importance, inasmuch as the loss of a trip is greatly increased over what would be neces sary with convenient buildings, and is attend-

Some arrangement should be made to rebe the better plan, if the means of the company permit, as the street is narrow, and constantly thronged with wagons and carriages. as were considered necessary to keep the track permit, and an extra set of hands all the time.

This expense would be entirely avoided, and a considerable saving made in wear and

The machinery, with the exception of one

10 ton, six wheeled engine; 12 ton, eight wheeled engine; 13 ton, eight wheeled engine;

15 ton, six wheeled engine, (connected; 16 ton, eight wheeled engine, freight, (upon the track, but not in use.)

One six wheeled connected engine, and one eight wheeled passenger engine, are now on their way via New Orleans, and three additional side tracks rendered necessary by the increasing business of the road; which are under contract to be delivered in May

> NUMBER OF CARS.

Contracts have been made for 35 eight wheeled cars in addition.

Of this number, one lost his life in attempting to get on a train while it was in motion, at Milford, in December last. As far as is

RECEIPTS AND EXPENDITURES On Account of Transportation, for the year ending 1st
December, 1846.

For carrying passengers \$51.190 11
For carrying freight 64.861 91

EXPENDITURES. For repairs of bridges.....For repairs of road bed, ordinary and ex-539 16 traordinary.
For repairs of cars.
For repairs of locomotives..... 6,962 69 4.026 89 7,987 46 227 87 For fuel .... 7,494 14 2,191 74 For rent 2,191 74
For loss and damage 658 82
For repairs of water stations 140 55
For transportation, expenditures, including wages, salaries, horse power, etc. 22,372 68 RECAPITULATION.

Total rec'ts on account of transportation. \$116,052 02 Total over current expenses .........\$51,285 12

A Statement of the Amount Received each Month in the Year, for Carrying Passengers and Freight.

Passengers.

1845 December ......\$3,618 76 \$4,261 07 1845 December \$3,618 76
1846 January 2,782 10
February 2,446 45
March 3,071 65
April 3,442 11
May 4,130 17
June 4,346 58
Luly 5,083 04 6,013 21 5,285 96 5,295 70 5,404 63 3,630 33 
 July
 5,083 04

 August
 5,976 59

 September
 5,966 17

 October
 6,007 78

 November
 4,318 71
 2.857 97 6,242 16 5,900 65 9,206 06

Total ..... \$51,190 11 \$64,861 91 A Statement of the principal articles of Produce trans-ported on the road, for the year ending 1st Dec. '46.

Apples, clover seed and eggs ..... barrels 2,677 Apples, clover seed and eggs barre.

Beef, pork and lard "Molasses, oil, vinegar, cider, etc. "Whiskey "Wheat and buckwheat flour " 3,131 32,977 81,251 4,386 7,337 Lime .... 

Pork and bulk meat..... Paper and rags.... 491,133 

Two additional water stations have been erected on the lower part of the road during of Saturday last, published at Pottsville, Pa., seen no machine where this labor has been the past year, and the number will still require to be increased, in order to prevent, as far as possible, delay in bad weather. Some irregularities have occurred in the arrival of the mail during the latter part of the year, in consequence of the inefficient class of engines we have been obliged to employ, and the utter impossibility, with the small number in the possession of the company, of keeping them in working condition. The number and class of the locomotives ordered and on their way, for the use of the road, will facility and the unusual and unexpected meeting in Worcester, on Saturday, it was furnish, it is presumed, an effectual remedy; and no doubt is entertained but that all just

The time allowed by the card between Cincinnati and Springfield is five hours, forty minutes. This includes the delivery of the mail from the postoffice to the depot, and 11 miles of horse power, and required stop-speed of 16 miles an hour, including stopmiles of horse power, and requires an average pages after the locomotive is attached. it is believed, is as high a rate as a proper

The total length of the main track is 84

A Statement of the Quantity and Average Cost of Earth Work and Masonry on the Little Miami Railroad, up to 1st December, 1846.

Yards. Average Cost 977,585 Embankment ..... 10 49-100 cents per yard

erches. 15,634 Wet masonry . \$2 88 12-100 " per perch. 7,280 Dry " . 1 38 73-100 " " 7,724 "Rip Rap" . . . 38 68-100 " "

Respectfully submitted, W. H. CLEMENT. Superintendent and Engineer.

(Official) Reading Railroad. A comparative statement of the business on the Philadelphia and Reading railroad for the week ending—

Jan. 4, Jan. 6, Jan. 7, 1946,

\$7,822 81 \$13,221 57 \$27,997 31 Coal trans.—tons, 3,959 2,254 15.377

# Miscellaneous Items.

erect an embankment fifty feet high in a field near Allan bridge, where the railway was to pass. The work was accordingly commenced, and many thousand loads of earth were piled in the requisite place; the work was then left for the purpose of acquiring solidity, but upon visiting it again it was found to have disappeared with the exception of a few feet. On inquiry it was found that the field had originally been a bog, and the weight of the soil necessary to form the embankment had broken through the external solid earth.—English paper.

"With this week we close the coal trade last, the managers of the railroad company second. Nor do we think it likely that set mated the capacity of the road at 1,250, duty will ever be discharged by mechanism. O00 tons for the year—the quantity sent is 1,233,561 11 being only 16.438 09 tons less than the estimate. The estimate would have the operation requires mind. freshet which occurred in June.

The quantity sent to market from all the ground for complaint will be removed in a regions in 1846, is in round numbers 2.238, few weeks. 000 tons, against 2,053,633 tons in 1845, being an increase in 1846 of 312,000 tons.

Erie Railroad Company.—The N. Y. Herald says, that, on reference to the quotahamton, the three millions of dollars subper cent. per annum, will have to be paid, that direction. one hundred and eighty thousand dollars per annum. The par value of the old stock in the market is seven hundred and fifty thousand dollars, and the amount of bonds outstanding, about five hundred thousand more, making an aggregate of twelve hundred and Freight on goods. 1,263 27 2,022 41 2,521 05 making an aggregate of twelve hundred and coal... 5,056 78 9,471 95 22,937 51 fifty thousand dollars, the interest on which interest on the \$3,000,000, an aggregate for interest alone of \$255,000 per annum.

The Coal Trade.—The Miners' Journal, singly by human hands-at least we have otherwise performed—and we consider it utterly impossible that any man, whatever may be his dexterity, can separate and place of this region for the year 1846. In January on the machine three or four sheets per last, the managers of the railroad company second. Nor do we think it likely that this

> Improvements at Worcester.—At a town voted to allow the Boston and Worcester Railroad Corporation to close part of a street, in order to effect certain improvements, which are mentioned in the following, from the Worcester Palladium :-

" It is understood that all the railroad companies, now chartered here, will enter into tions of the old stock of the Erie Railroad the arrangement proposed by the Boston Company, that there has been within the past week or two an advance of fourteen per do so, that company will then go forward cent in the market value. This has been and make the proposed heavy expenditures; it is believed, is as high a rate as a proper cent. In the market value of directors had determined to pay interest on depot accommodations to the other comthis stock, as soon as the road was completed panies. The plan for the depot contemto Binghamton. According to the existing appearance of the work on the road, it will be finished to that point in about two feet, and other parts 100 feet in width; built years. The directors do not say whether upon a segment of a circle; with ample acthe payment of interest at that time will de-commodations for the three roads now in pend upon the income of the road, or whether operation, and the two others in progress; it will be paid out of the new capital of the and admitting of an easy and ready passage company, but we are informed that the intention is to pay the interest at any rate, The great convenience of such an arrangewhether there are any surplus receipts or ment, for the public occommodation, cannot not. When this road is completed to Bing- be over-estimated. Another part of the plancontemplates the concentration of the freight scribed under the new charter, will be ex- houses of all the roads near Washington pended in interest and in constructing the Square, which, it is believed, will tend road; the interest on which, at the rate of six largely to a liberal growth of the town in

Express Train to Utica.—A Rochester paper says, "that the Utica and Schenectady Company intend in the spring to commence running an express train to Utica without stopping. If the rest of the companies come into this arrangement, Rochester will be reached in eight or ten hours, and Buffalo in twelve. The through mails can be sent by at six per cent. would be seventy-five thou-twelve. The through mails can be sent by sand dollars per annum, making, with the this train, and the business public will be greatly accommodated. The Tonawanda has already agreed to come into the ar-A very extraordinary event has just taken place in the works connected with the Scottish Central railway. It was necessary to lyn Eagle, says, "the Messrs. Dryden, the rect an embankment fifty feet high in a field celebrated English engineers, are employed to excuse themselves on the ground that their Commerce of the New York Canals.—A table of the commerce of the New York ments of the copper mines at Flemington, sor Canals for the last two years is published in the Albany Argus, which shows the following comparison:

"From all that we can learn, the copper mines of Flemington, in Hunterdon County, at

The country over which the road is to pass and Care. The Subscriber is engaged to be very favorable for the constructions.

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The subscriber is engaged to be very favorable for the constructions.

The subscriber is engaged to be very favorable for the construction of the constru

Iron in Tennessee.—The first iron manufactured in Tennessee, has been made at the Tennessee Valley Works, about fifty miles from the mouth of the Cumberland. The articles have been pronounced by competent judges, to be of very saperior quality. These works have been built upon an enlarged scale, combining all the advantages such establishments can possess.

Pig Iron.

Codorus, Glendon, Spring M.1 and Valley, Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Machinery, tor which purpose the above makes of Pig Iron are particularly adapted.

They are also sole Agents for Watson's celebrated for Rails, deliverable edfire Bricks at d prepared Kaolin or Fire Clay orders for which are promptly supplied.

No. 139 Greenwich, corner of Cedar street.

September 18, 1846.

RAY'S EQALIZING RAILWAY TRUCK.—THE SUBSCRI—Fiver. (of which for the contracts for which are promptly supplied.

SAM'L KIMBER, & CO.,

SAM'L KIMBER, & CO.,

SAM'L KIMBER, & CO.,

Philadelphia, Pa.

From and to the Hudson River during are certain to be mines of wearth to the post the year 1845 and 1846, and the aggregate sessor. We understand that over twenty tools of the property transported.

1845. 1840.

Tonnage, 1,428,956 tons. 1,601,335 tons. Value, \$100,905,319 & \$115,732,780\$

It will be seen that there is an increase in the tonnage of \$172,579 tons, and of \$14,826.

The value of the property transported, one of the leading capitalists in this Company. It contains 50 per cent of copper, is worth \$156 per ton at the mines. Mr. Whitaker, of the walue of the property transported, one of the access both in tonnage and value over previous years is still greater.

The value of the entire movement of sides this richest quality of ore, there is a property from and to the Hudson, says the Argus, in greater by \$4,490,353 than the export of the United States for the fiscal export of the United States for the fisca From and to the Hudson River during are certain to be mines of wealth to the post the year 1845 and 1846, and the aggregate sessor. We understand that over twenty value of the property transported.

is suid to be very favorable for the construction of a road, having but slight elevations, and but few rivers to cross. It would pass through a section of country illimitable in its agricultural resources, and which is now nearly worthless, for the want of a market for its products.

Iron in Tennessee.—The first iron manu factured in Tennessee, has been made at the Tennessee Valley Works, about fifty

Ital 68 Broad St., New York.

45 North Water St., Philadelphia, or by their Agent, ROBT. NICHOLS.

The Subscriber is engagep in manufacturing Spring Steel from 11 to 6 inches in width, and of any thickness required: large quantable in its agricultural resources, and which is now wherever used, its quality has been approved of. The establishment being large, can execute orders with great promptitude, at reasonable prices, and the quality warranted. Address

JOAN F. WINSLOW, Agent, patronage of persons engaged in the making of Mathematical Control of the sale of the sale of Codorus, Glendon, Spring M.1 and Valley,

Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Mathematical Control of the sale of Codorus, Glendon, Spring M.1 and Valley,

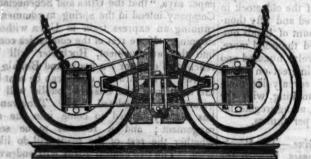
Albany Iron and Nail Works,

The Subscriber is engagep in the subscriber is engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in the making of Mathematical Codorus, and the patronage of persons engaged in t

NICOLL'S PATENT SA for Railroad Turnouts. some time in successful operatio cipal railroads in the country, engines and their trains from r

RAY'S EQALIZING RAILWAY TRUCK.—THE SUBSCRI-river, (of which firm the subscriber was late a partner) under the immediat supervision of Mr. Ray himself.

Several sets of trucks containing the latest improvements have recently



York, expressly for the manufacture of the newly patented and highly approved Railroad Truck of Mr. Fowler M. Ray, is ready to receive orders for tilding the same, from Railroad Companies and Car Builders in the United States, and elsewhere.

The above Truck has now been in use from one to two years on several roads a sufficient length of time to test its annability, and other good qualities, and to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

tificates which follow this notice.

There have been acveral improvements lately introduced upon the Truck, such as additional springs in the bolister of passenger cars, making them delightful riding cars—adapting it to tenders, trucks forward of the locomotive, and freight cars, which, with its original good qualities, make it in all respects the most destrable truck now offered to the public.

Orders for the above, will, for the present, he executed at the New York Serew Mill, corner 33d street and 3d avenue, (late P. Cooper's rolling mills) and at the Steam Engine Shop of T. F. Secon & Co., foot of 9th street, East

been turned out for the New York and Erie railroad, and the New Jersey Transportation company, which may be seen upon said roads. The patronage of Railroad Companies and Car Builders is respectfully

solicited.

New York, May 4, 1846.

W. H. CALKINS, and Others.

To all whom it may concern:—This is to certify that the New Haven, Hartford and Springfield railroad co., have had in use six sets of F. M. Ray's palent trucks for the last 20 months, during which time it appears to me, they have proved to be the bes and most economical truck now in use.

Isigned 1.

WILLIAM ROE, Sup't of Power.

[Signed.] WILLIAM ROE, Sup't of Power.

I certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Philadelphia and Reading railroad for some time past, under a

passenger car. Passenger car.

For simplicity of construction, economy in cost, lightness of material, and extreme ease of motion, I consider it the best truck we have ever used. Its peculiar make also renders it less liable to be thrown off the track, when passing over any obstruction. We intend using it extensively under the passenger and freight cars of the above road.

ger and freight cars of the above road.

Reading, Pa., October 6, 1845. [Signed.] G. A. Nicoll.,
Sup,t Transportation, etc., Philadelphia and Reading Railroad.
To all whom it may concern:—This is to certify that the N. Jersey Railroad and Transportation company have used Fowler M. Ray's Truck for the last seven months, during which time it has operated to our entire satisfaction.
I have no hesitation in saying that it is the simplest and most economical truck now in use.

Jersey City, November 4, 1845. N. Jersey Railroad and Transp. Co.
This is to certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Long Island railroad for the last year, under a freight car.

For simplicity of construction, economy in cost, lightness of material and ease of motion, I consider it equal to any truck we have in use.

Long Island Railroad Depot, [Signed.] John Leach, Jamuica November 12, 1845. [Signed.] John Leach, Sup't Motive Power.

0 Ci



RICH & CO'S IMPROY-R ED PATENT SALA MANDER SAFES. Warranted free from dam

ness, as well as fireand thief

Proof.
Particular attention is invited to the following certificates, which speak for themselves:
TEST No. 10.
Certificate from Mr. Silas C. Field, of Vicksburgh,

Mississippi.

On the morning of the 14th ult., the store owned On the morning of the 14th ult, the store owned and occupied by me in this city, was, with its contents, entirely consumed by fire. My stock of goods consisted of oil, resin, lard, pork, sugar, molasses, iquors, and other articles of a combustible nature, in the midst of which was one of Rich's Improved Patent Salamander Safes, which I purchased last October of Mr. Isaac Bridge, New Orleans, and which contained my books and papers. This safe was red hot, and did not cool sufficiently to be opened until 16 hours after it was taken from the ruins. At the expiration of that time it was unlocked, when its contents proved to be entirely uninjured, and not even discolored. I deem this test sufficient to show that the high reputation enjoyed by Rich's Safes is well merited.

TEST No. 11.—Certificale. TEST No. 11 .- Certificate.

By the fire which occurred in this village on the 27th July last, our Law Office, together with many other buildings, was destroyed—we had in our office one of Rich's Improved Patent Salamander Safes, which, though heated red hot, preserved, without being the least camaged, many papers valuable to our clients—the envelopes of a tew papers being slightly scorched. Some twenty four hours after the fire, the Safe was removed, and so hot was it, that several hours were required for it to cool off. Our office was in the second story of a large brick building, all the wood used in construction of said house being pitch pine. While the Safe was red hot, one of the pitch pine. While the Safe was red hot, one of the walls tumbled in, and so injured the lock that it was wants tumoted in, and so injured the fock that it was necessary to break the door open. From this test, we feel no hesitancy in recommending "Rich's Patent Salamander Safe" as entirely fire proef.

Gorge & Kino.

Goree & King.

Marion, Ala., Sept. 15th, 1846.

Still other Tests in the Great Fire of July 19, 1845.

The undersigned purchased of A. S. Martin, No. 1384 Water street, one of Rich's Improved Patent Salamander Safes, which was in our store, No. 54 Exchange place. The store was entirely consumed in the great conflagration on the morning of the 19th inst. The safe was taken from the ruins 52 hours after, and on opening it, the books and papers were found entirely uninjured by fire, and only slightly wel—the leather on some of the books was perched by the extreme heat. Recharge & Cronkhite.

Benton, Miss., December 27, 1845.

was feel no besidency in recommending 'Rich' 2 Part (all Salamander Sala's as entirely consumed to the state of the state

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# FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

FRENCH AND BARD'S PATENT SPARK ARRESTER.

To THOSE INTERESTED IN Railroad Director, and Managers are respectfully invited to examine an improved SPARE ARRESTER, recently patented by the undersigned.

Our improved SPARE Arrester have been extensively used during the last year on both passenger and frieight engines, and have been brought to such a state of perfection that no annoyance from sparks or dust from the chimney, of engines and which they are used a experienced.

These Arresters are constructed on an entirely different principle from any heretolore offered air, since and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and sparks passing through the chimney, through openings near its top, from wheated they are separated from the thought of the smoke and steam, and thrown into an outer chamber of the chimney different principle from wheated they are separated from the smoke and steam, and thrown into an outer chamber of the chimney different principle from the state of the smoke and steam, and thrown into an outer chamber of the chimney different principle from the state of the smoke and steam, and thrown into an outer chamber of the chimney different principle from the state of the smoke and steam, and thrown into an outer chamber of the chimney different principle from the state of the state o





GOLD MEDAL AWARDED THE INVENTOR BY THE AMERICAN INSTITUTE.

THE UNDERSIGNED RESPECTFUL—but 8 feet; the timber being more concentrated under road Companies, to some highly important improve- and 15 inches wide, is introduced into a square of ments he has recently made in the Herron system of the trellis for the purpose of giving an additional, Railway structure. These improvements enable and effectual support to the joints of the Rails, him to effect a very large reduction in the quantity which rest upon it. Should these joint blocks be-off Timber, and cost of construction, without impair-come chafed and worn by the working, and imbeding the strength of the Track, or its powers of resisting frost, while they secure additional features of roads, they can be readily replaced without any descretelence in the Drainage and facility of making. The following is a general estimate of its cost near.

into the side ditches

In the 5 foot plan, the Track occupies a Road bed nearly 11 feet wide, while the new construction takes

JAMES HERRON.
Civil Engineer and Palente
No. 277 South Tonth St., Philadelphia.

ENGLISH PATENT WIRE ROPES—FOR THE USE OF MINES, RAILWAYS, ETC.—

for sale or imported to order by the subscriber.

These Ropes are manufactured on an entirely different principle from any other, and are now almost exclusively used in the collieries and on the railways in Great Britain, where they are considered to be greatly superior to hempen ones, or iron chains, as regards safety, durability and economy. The plan upon which they are made effectually secures them from corrosion in the interior, as well as the exterior of the rope, and gives a greater compactness and elasticity than is found in any other manufacture.

Many of these ropes have been in constant operation in the different mines in England, and on the Blackwall and other inclined planes, for three and four years, and are still in good condition.

They have been applied to almost every purpose for which hempen ropes have been used—mines, heavy cranes, standing rigging, window cords, lightning conductors, signal halyards, tiller ropes, etc. Reference is made to the annexed statement for the relative strength and size. Testimonials from the most eminent engineers in England can be shown as to their efficiency, and any additional information required respecting the different descriptions and application will be given by

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Statement of Trial made at the Woolwich Royal Dock Yard, if the Patent Wire Ropes, as compared with Hempen Ropes and Iron Chains of the same strength.—October, 1841.

WIRE ROP	HEMPEN ROPES.			CHA	INS.	STRENGTH		
Wire gauge Circumference aumber. of rope.	Weight po	fathom.	Circumference of rope.	Weight pe	er fathom.	Weight per fathom	Diameter of iron.	Tons.
11 44 14 15 15 16 24	LBS. 13 8 6 5 4	0x, 5 3 11 9	10 84 74 64	LBS. 24 16 12 9	oz. - 8 4 8	LBS. 50 27 17 131 101	INCH. 15-16 11-16 9-16 1-2 7-16	20 134 101 74

The working load, with a perpendicular lift, may be taken at 6 cwt. for every ib, weight per fathem, so that a rope weighing 5 lbs. per fathem would safely lift 3360 lbs., and so on in proportion. 1984



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Nav. 16, 1846.

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